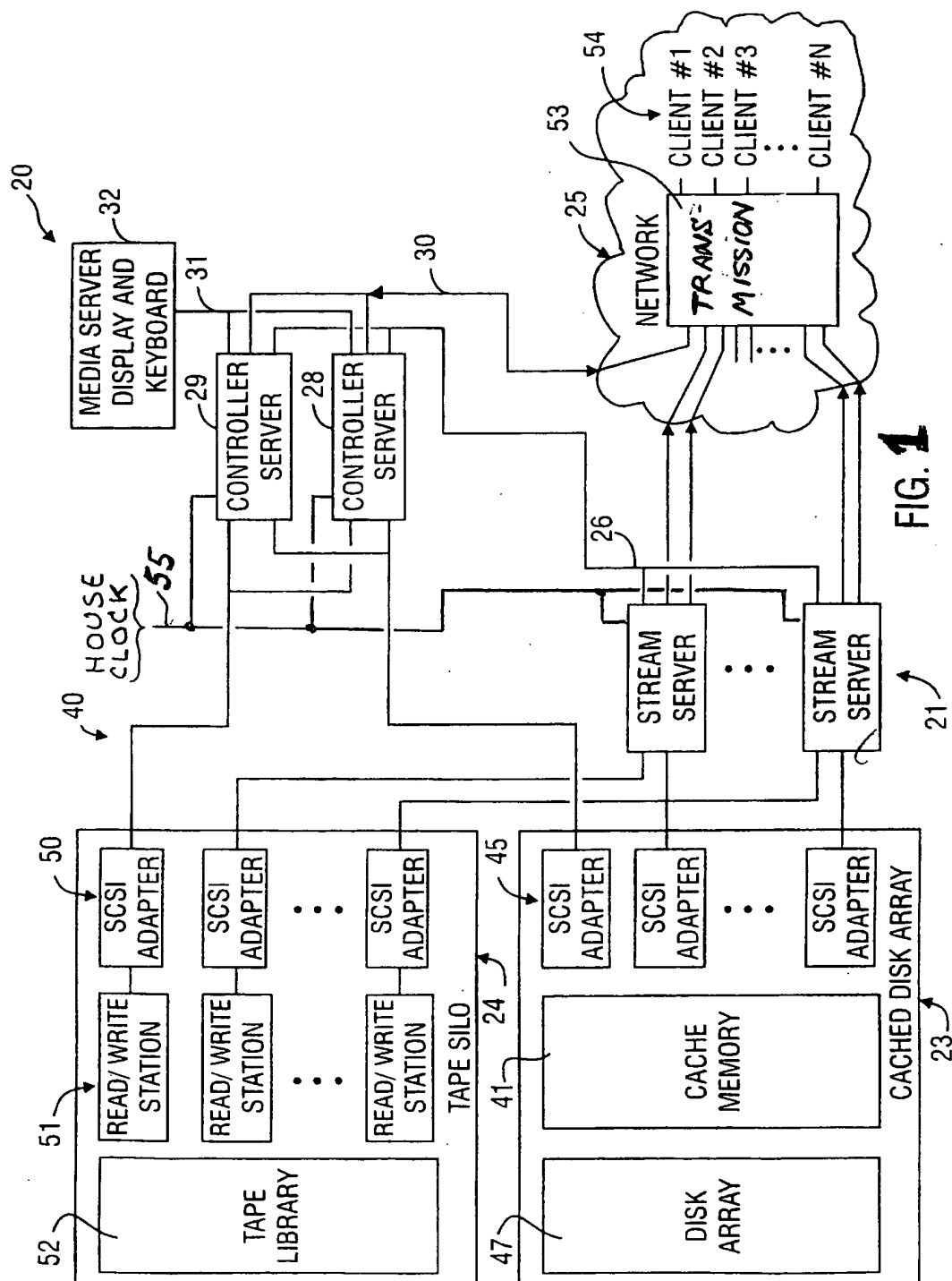


SECRET

Y40



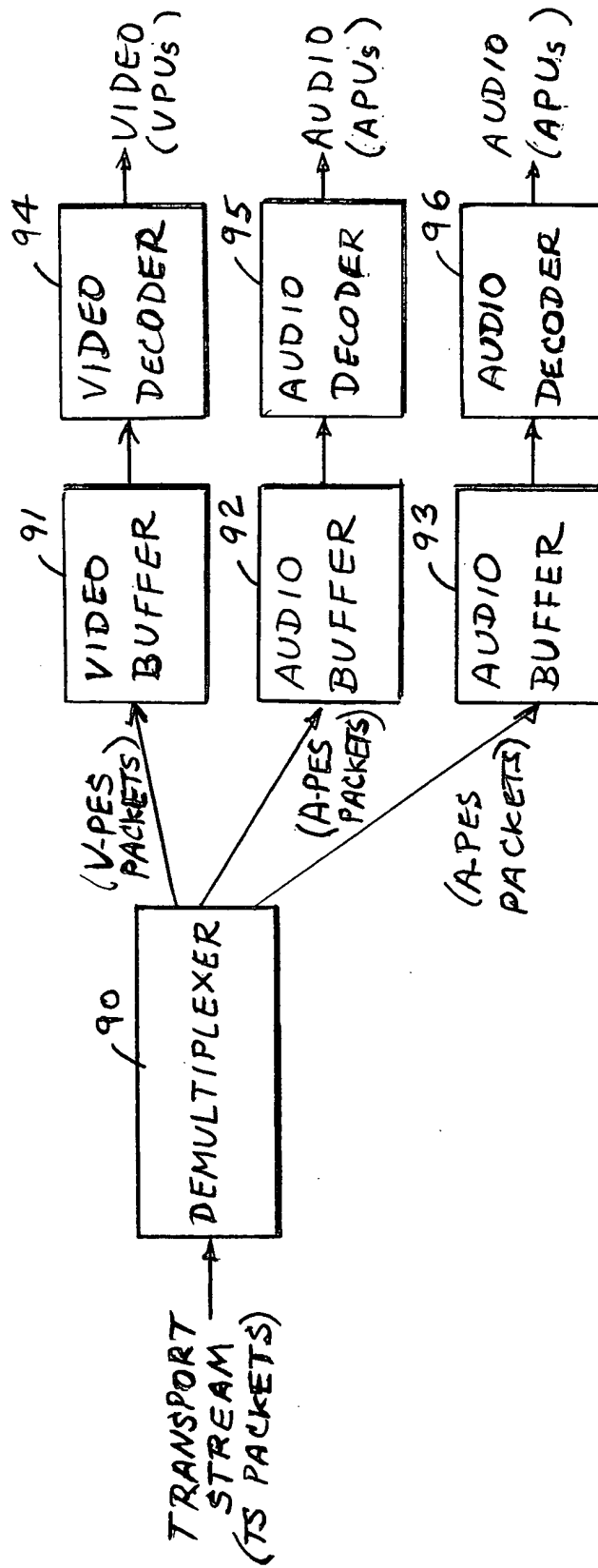


FIG. 4

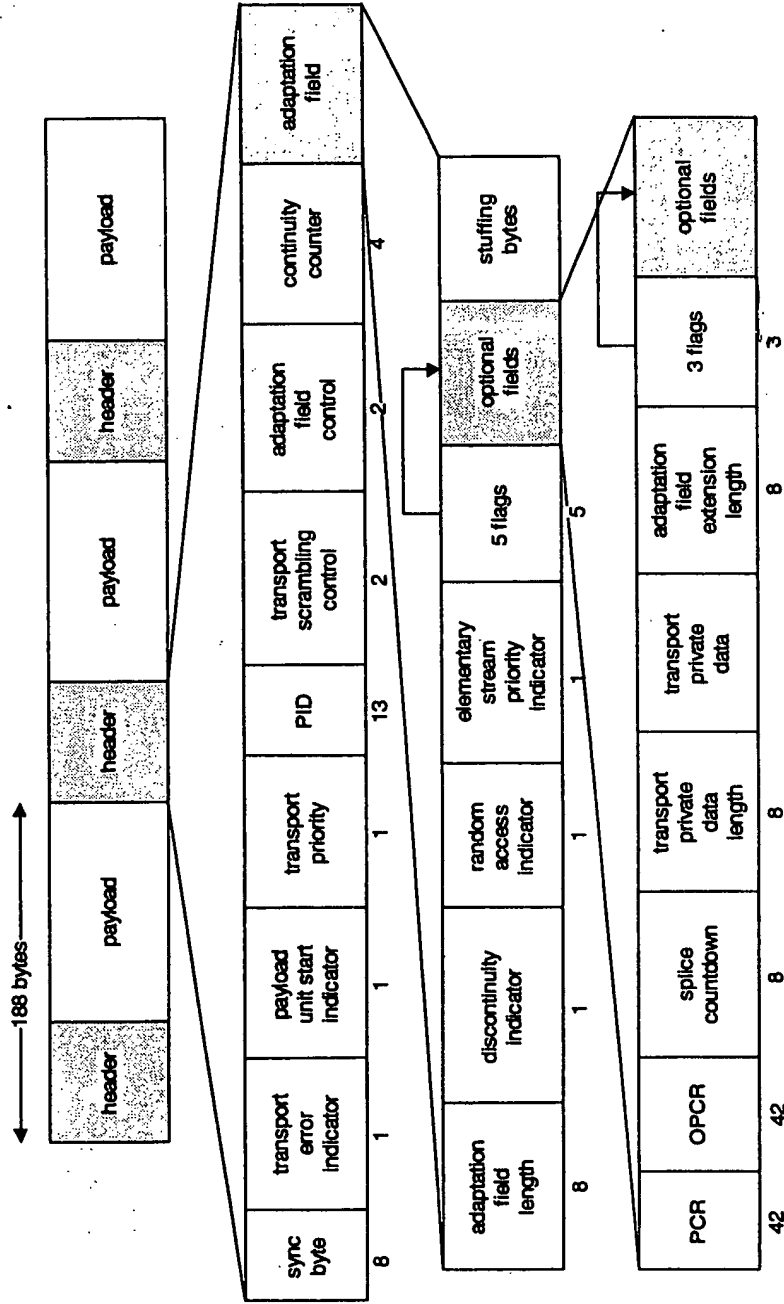


FIG. 5

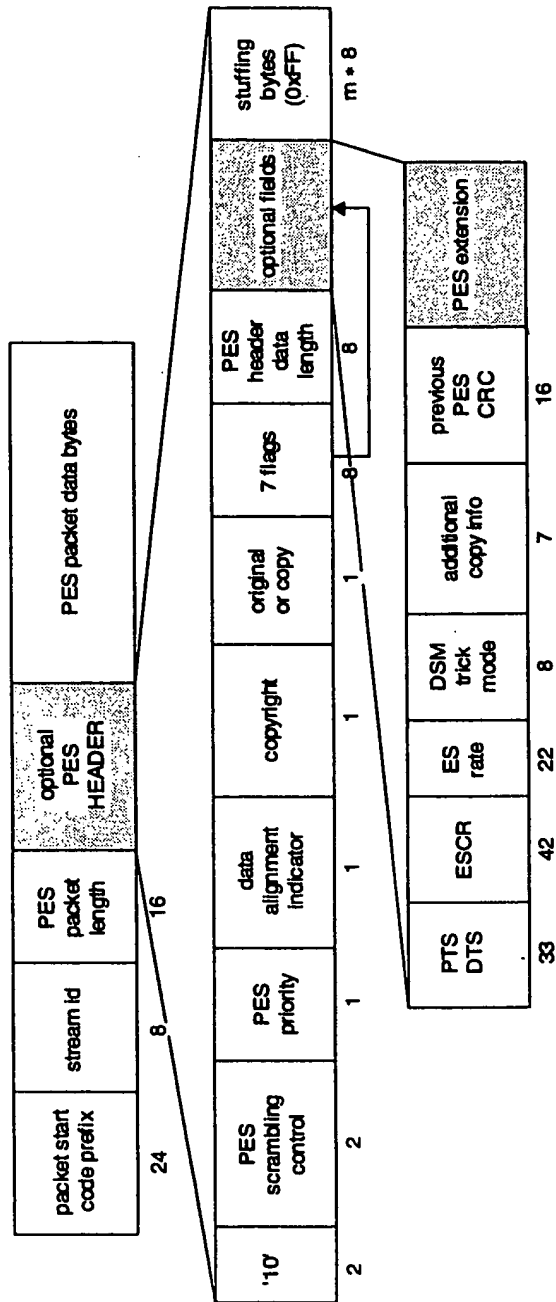
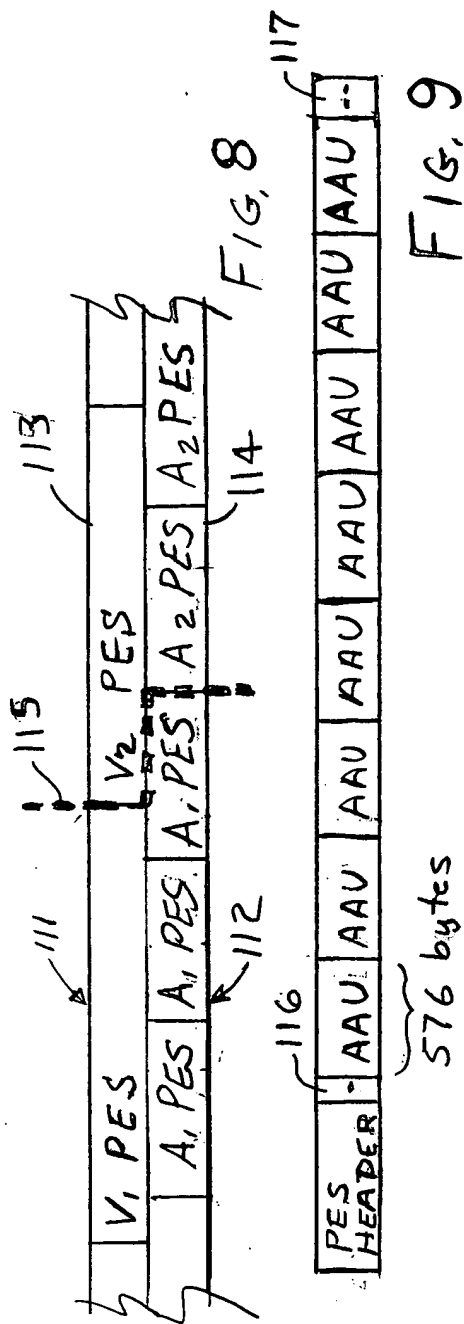
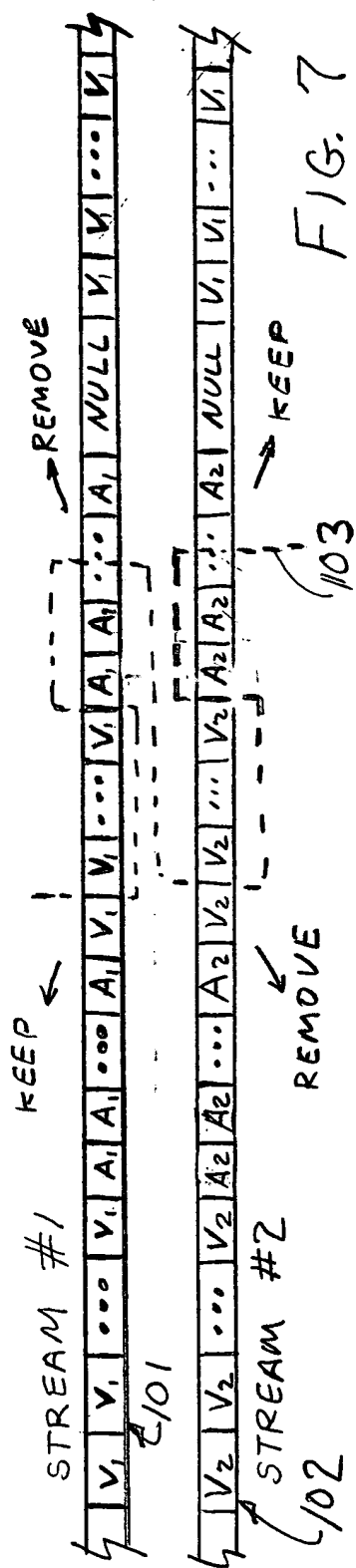
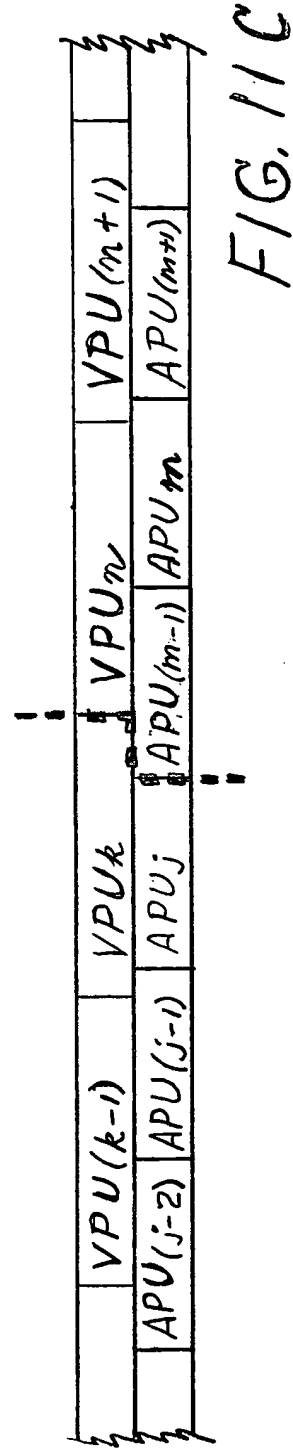
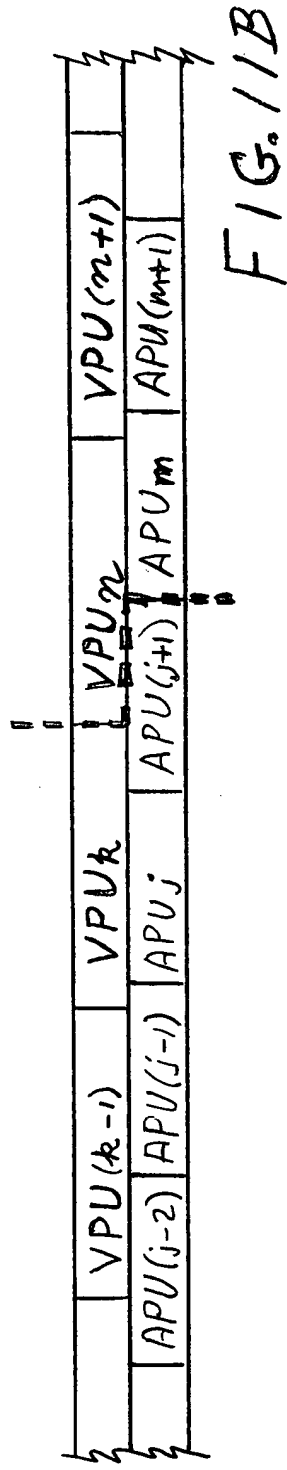
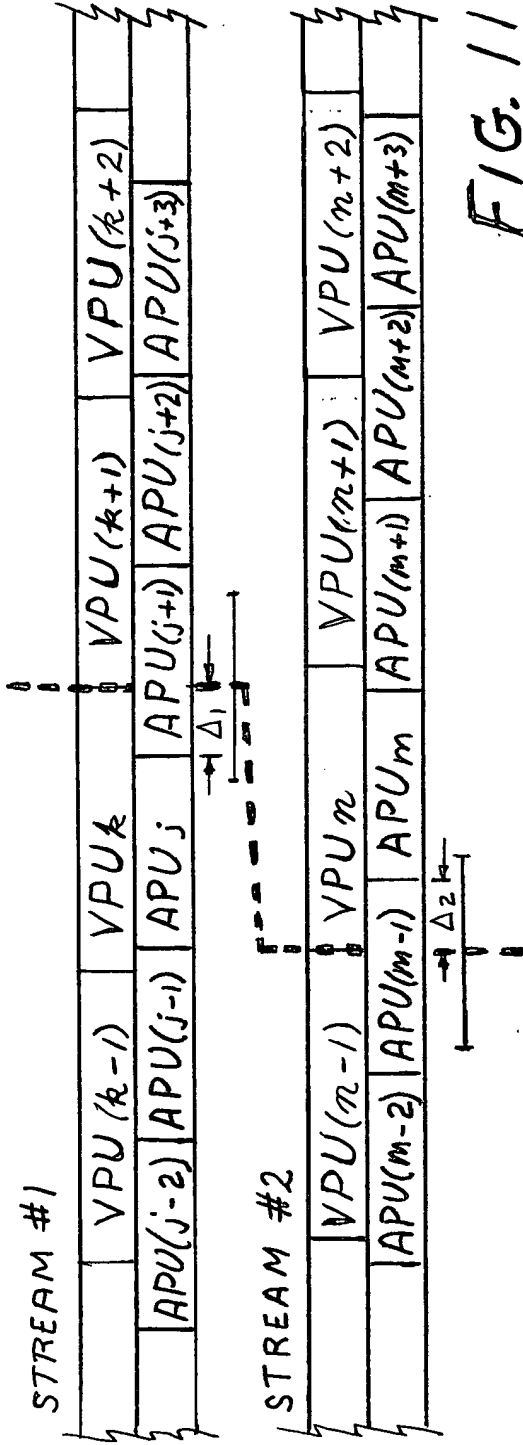


FIG. 6



<p>STREAM #1 BEST ALIGNED APU <u>SHORT</u> INTO THE CUT ($\Delta_1 > 0$)</p>	<p>STREAM #2 BEST ALIGNED APU <u>SHORT</u> INTO THE CUT ($\Delta_2 < 0$)</p>	<p>12 msec. < audio gap < 24 msec. ($\Delta_1 - \Delta_2$)</p>	<p>FIGS. 11A, 11B, 11C</p>
		<p>0 msec. < audio gap < 12 msec. ($\Delta_1 - \Delta_2$)</p>	<p>FIGS. 12A, 12B</p>
	<p>STREAM #2 BEST ALIGNED APU <u>LONG</u> INTO THE CUT ($\Delta_2 > 0$)</p>	<p>0 msec. < audio gap < 12 msec. ($\Delta_1 - \Delta_2$)</p>	<p>FIGS. 13A, 13B</p>
		<p>0 msec. < audio overlap < 12 msec. ($\Delta_2 - \Delta_1$)</p>	<p>FIGS. 14A, 14B</p>
<p>STREAM #1 BEST ALIGNED APU <u>LONG</u> INTO THE CUT ($\Delta_1 < 0$)</p>	<p>STREAM #2 BEST ALIGNED APU <u>SHORT</u> INTO THE CUT ($\Delta_2 < 0$)</p>	<p>0 msec. < audio gap < 12 msec. ($\Delta_1 - \Delta_2$)</p>	<p>FIGS. 15A, 15B</p>
		<p>0 msec. < audio overlap < 12 msec. ($\Delta_2 - \Delta_1$)</p>	<p>FIGS. 16A, 16B</p>
	<p>STREAM #2 BEST ALIGNED APU <u>LONG</u> INTO THE CUT ($\Delta_2 > 0$)</p>	<p>12 msec. < audio overlap < 24 msec. ($\Delta_2 - \Delta_1$)</p>	<p>FIGS. 17A, 17B, 17C</p>
		<p>0 msec. < audio overlap < 12 msec. ($\Delta_2 - \Delta_1$)</p>	<p>FIGS. 18A, 18B</p>

FIG. 10



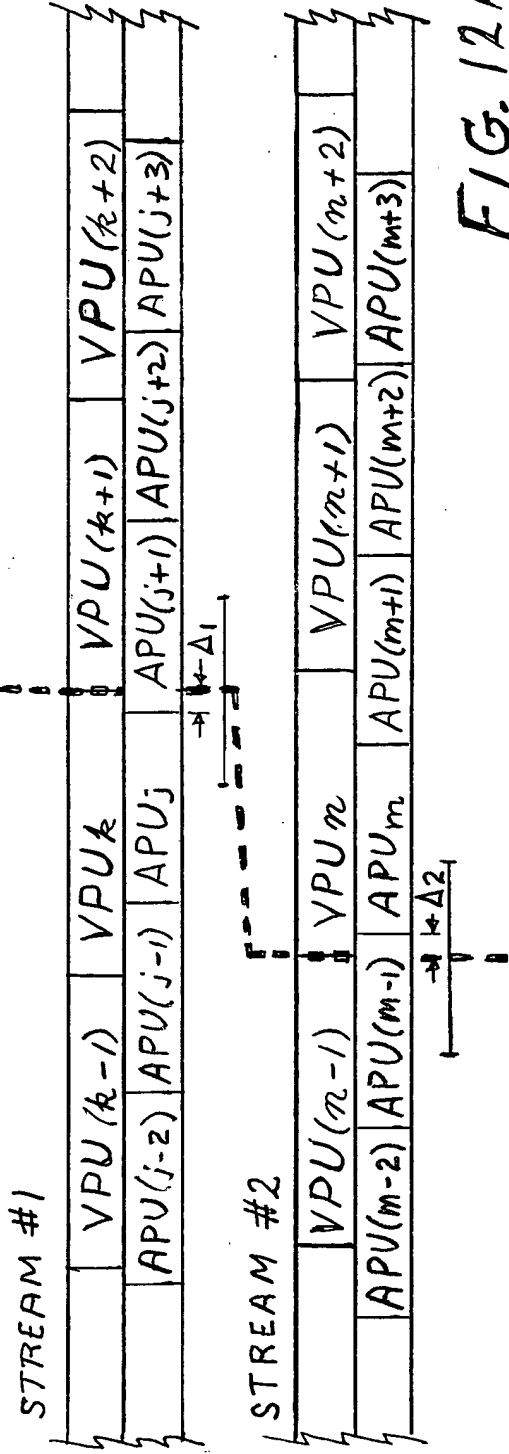


FIG. 12A

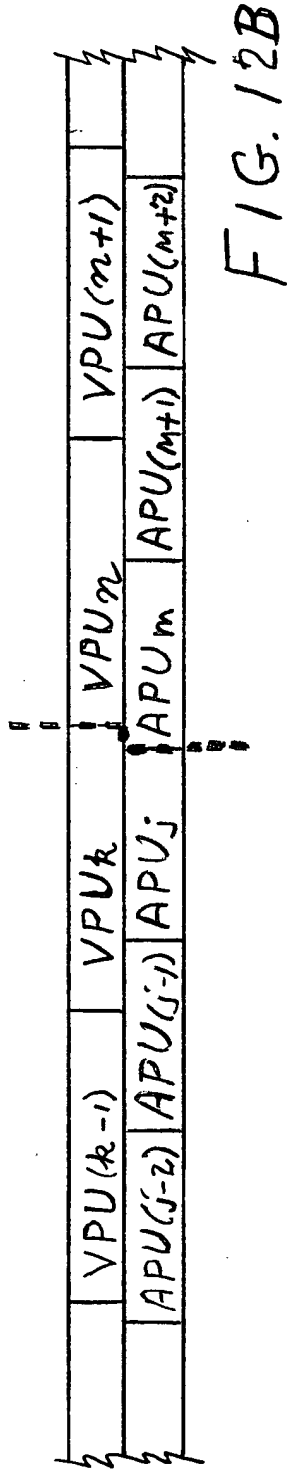
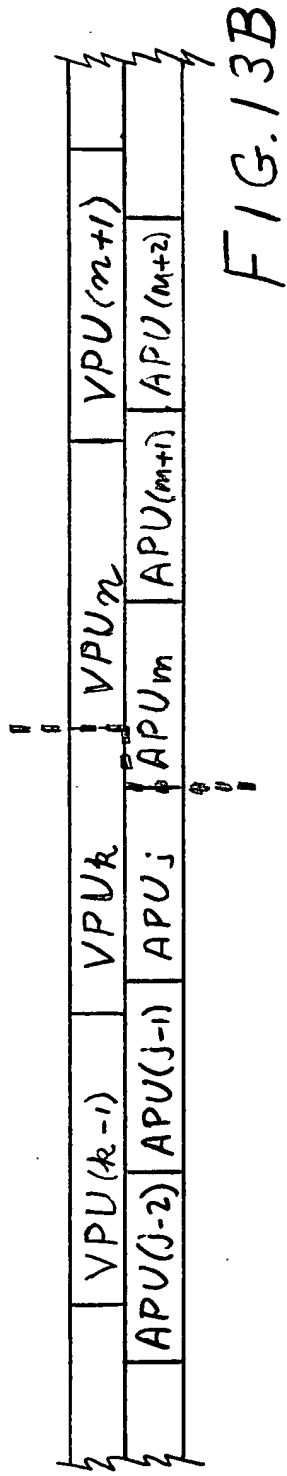
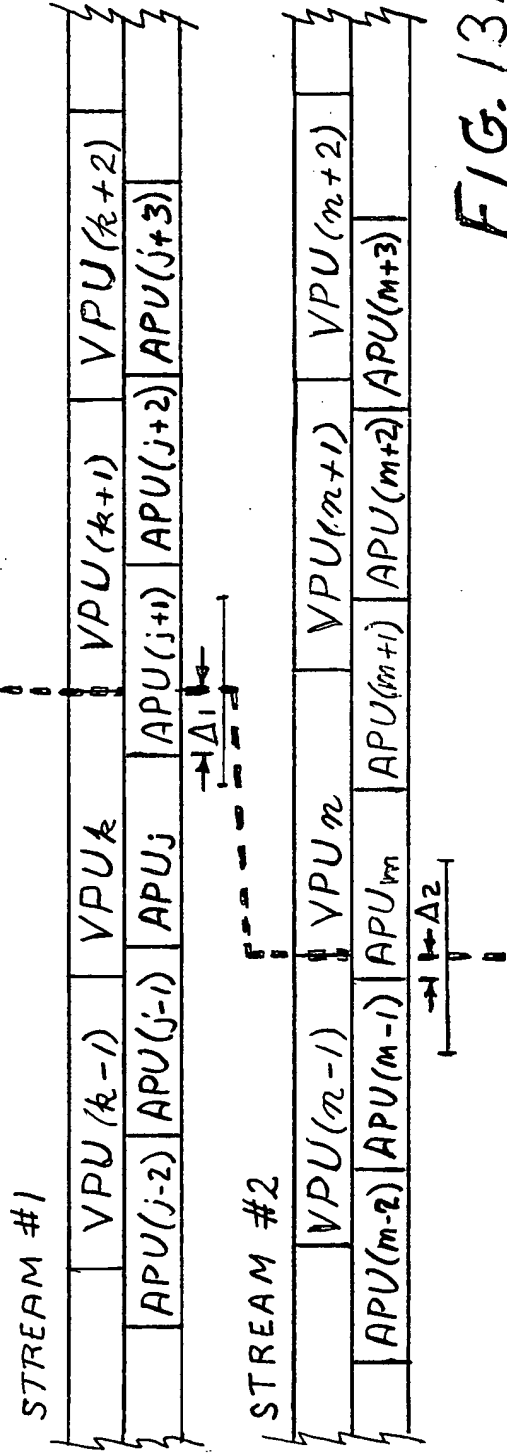


FIG. 12B



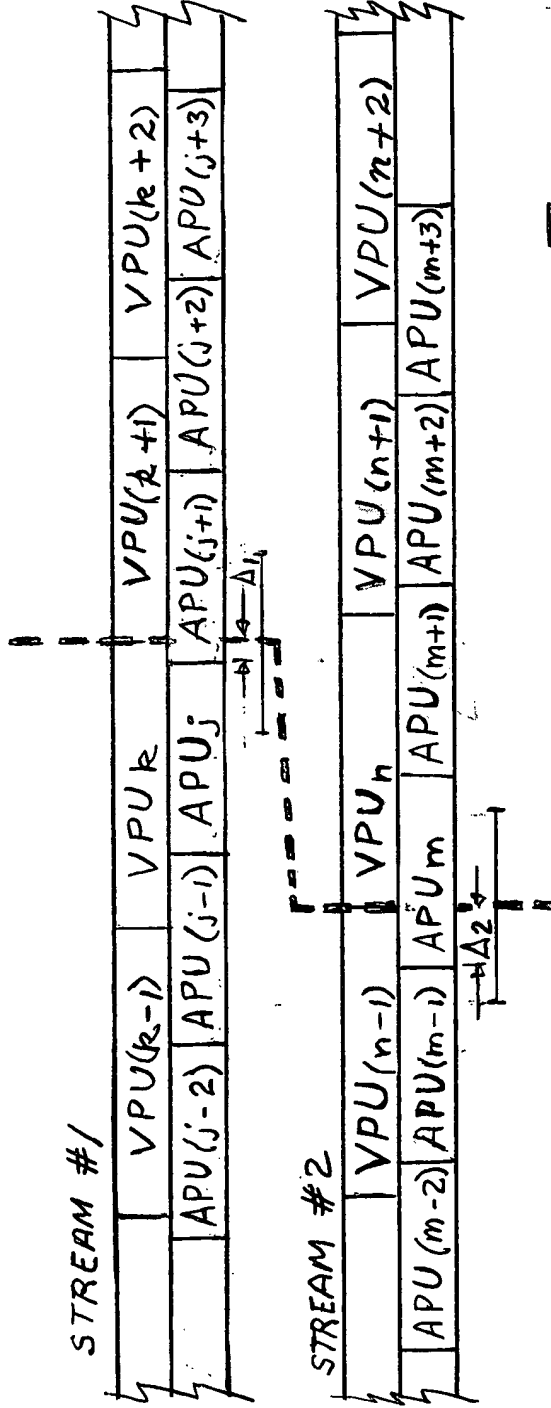


FIG. 14A

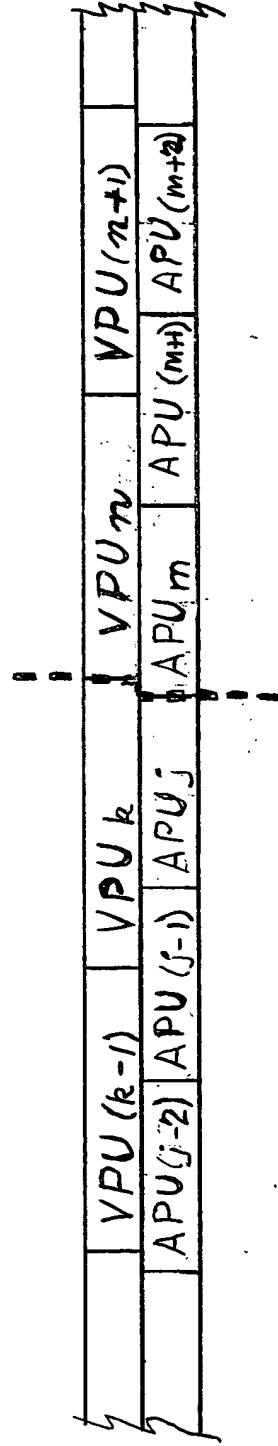
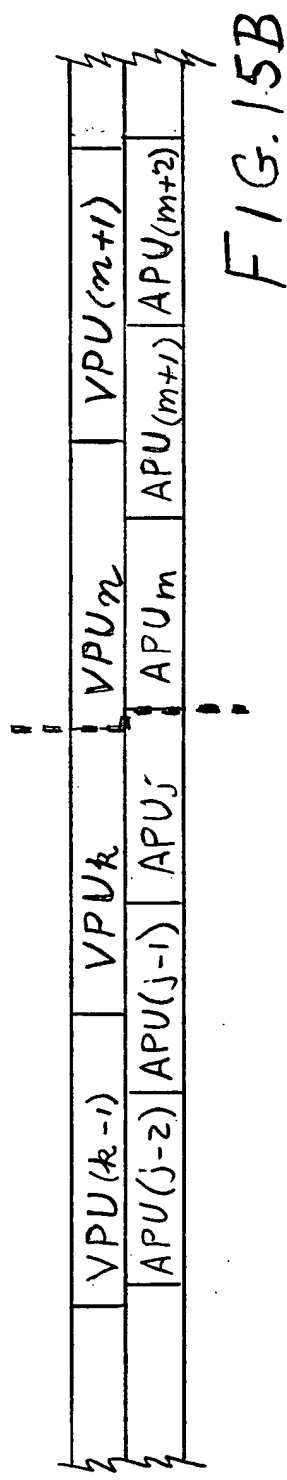
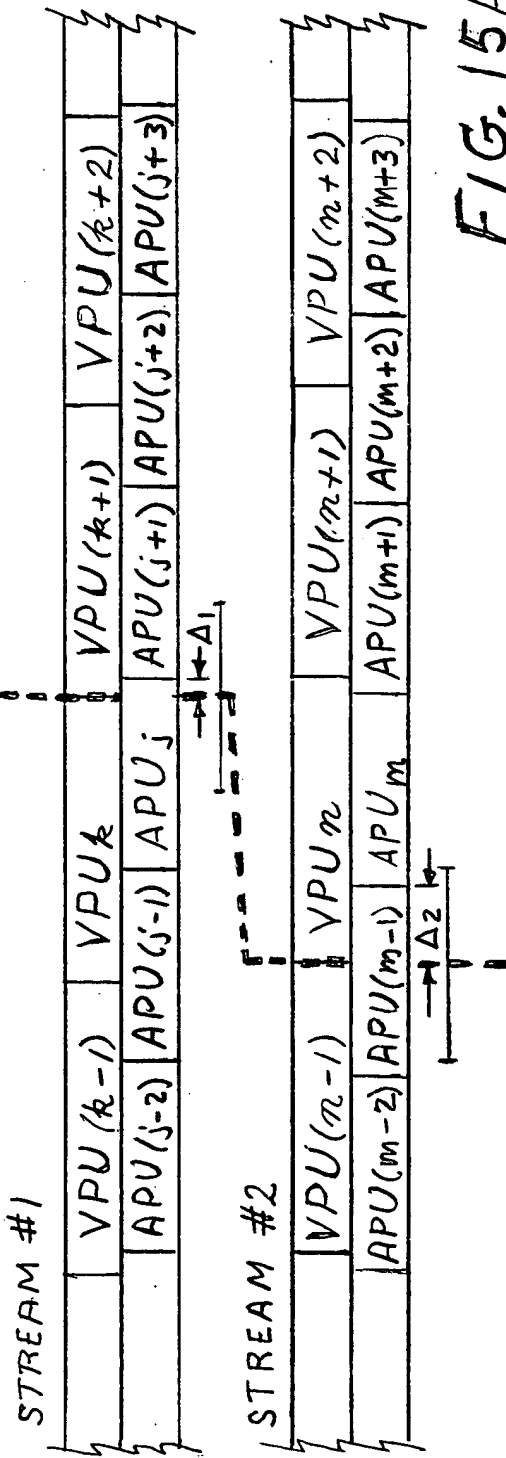


FIG. 14B

CONT. OF SECT. 50



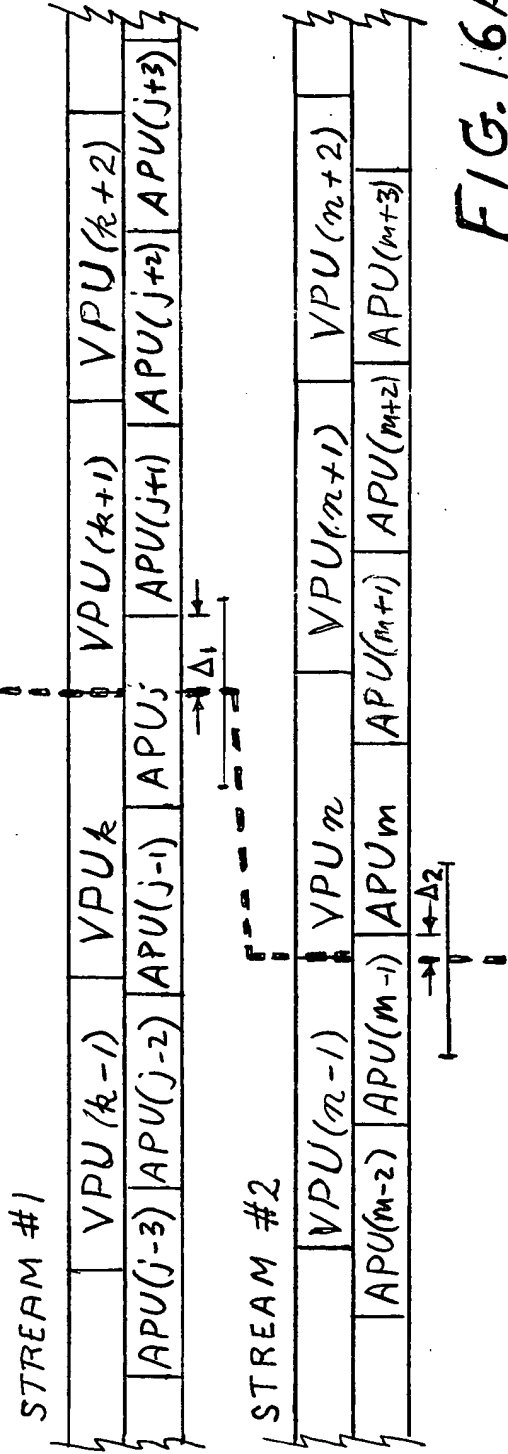


FIG. 16A

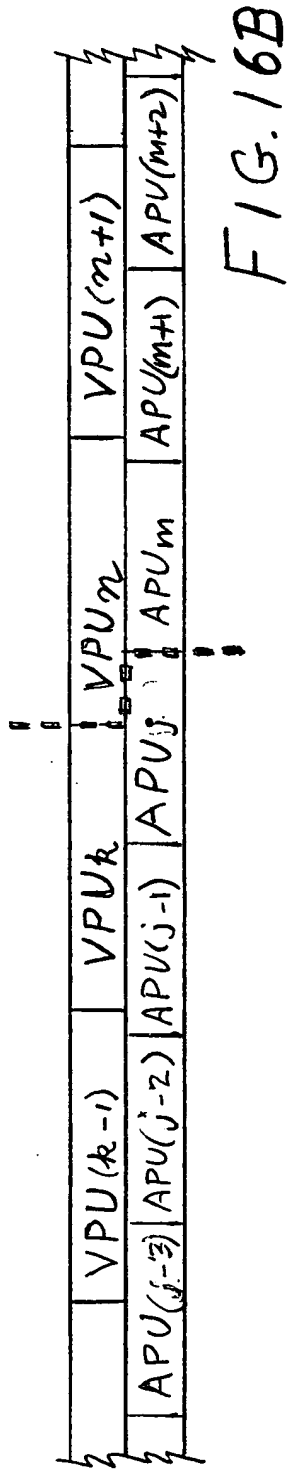
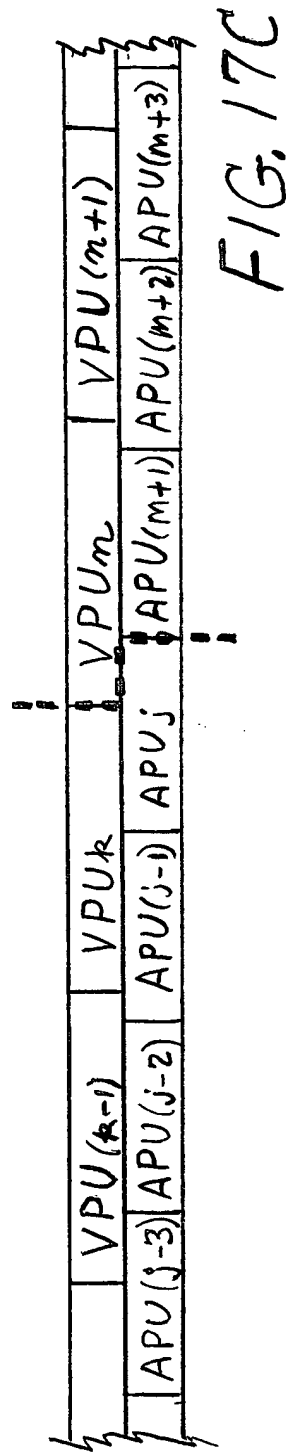
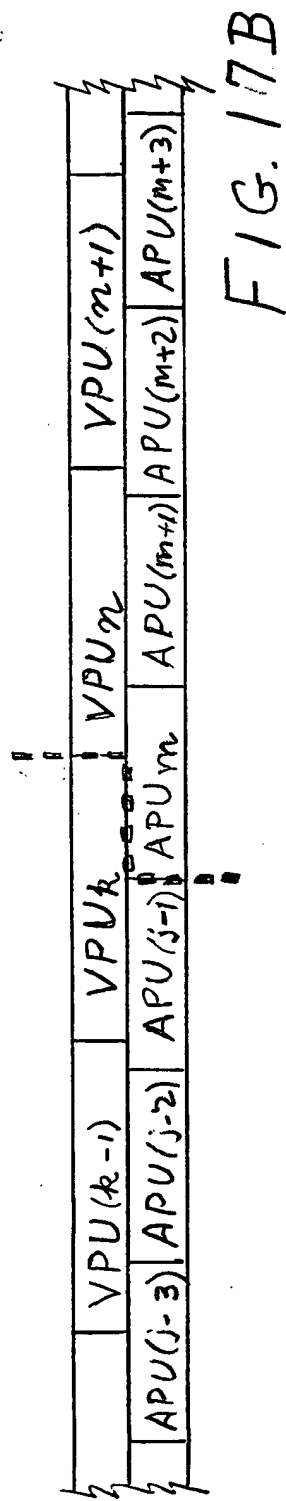
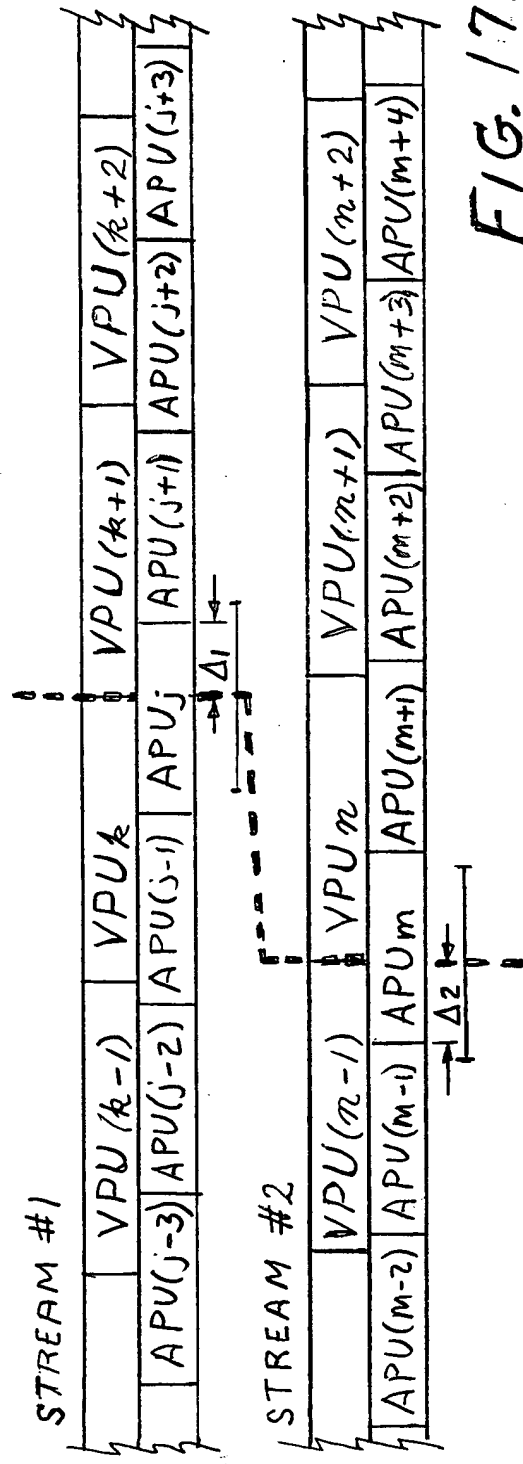


FIG. 16B



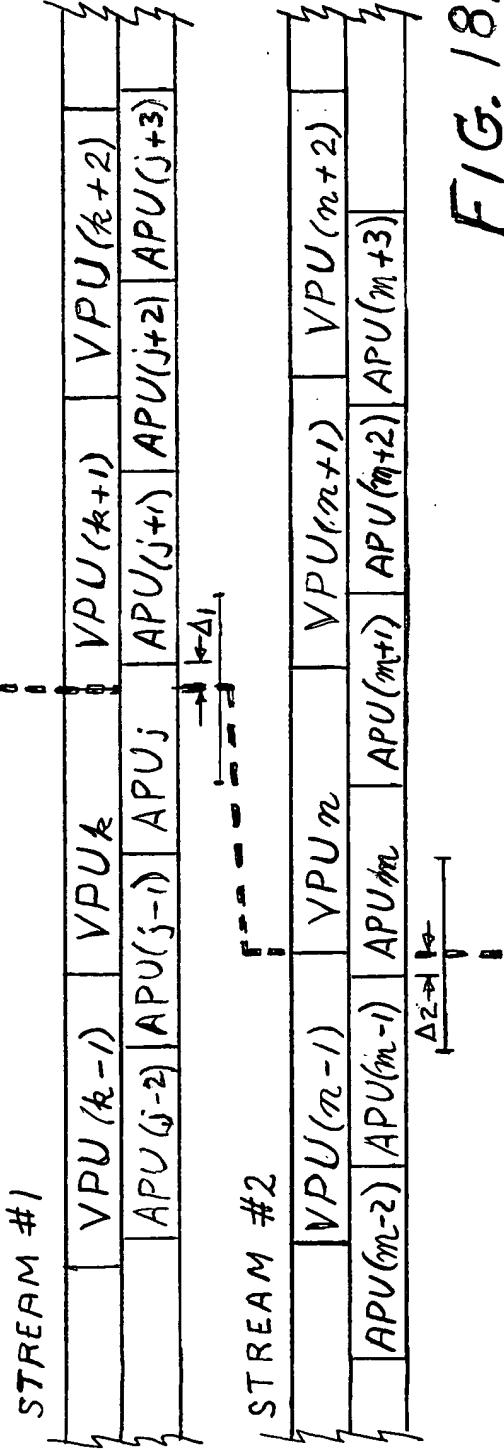


FIG. 18A

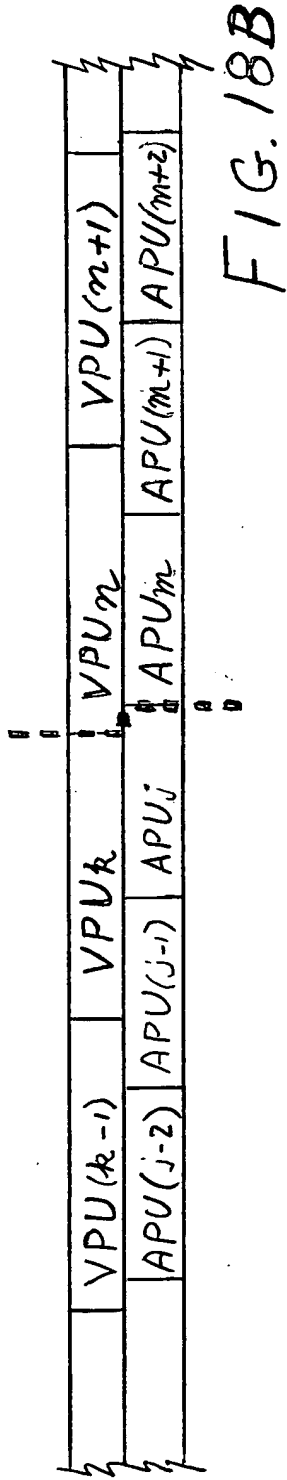


FIG. 18B

00540305-033100

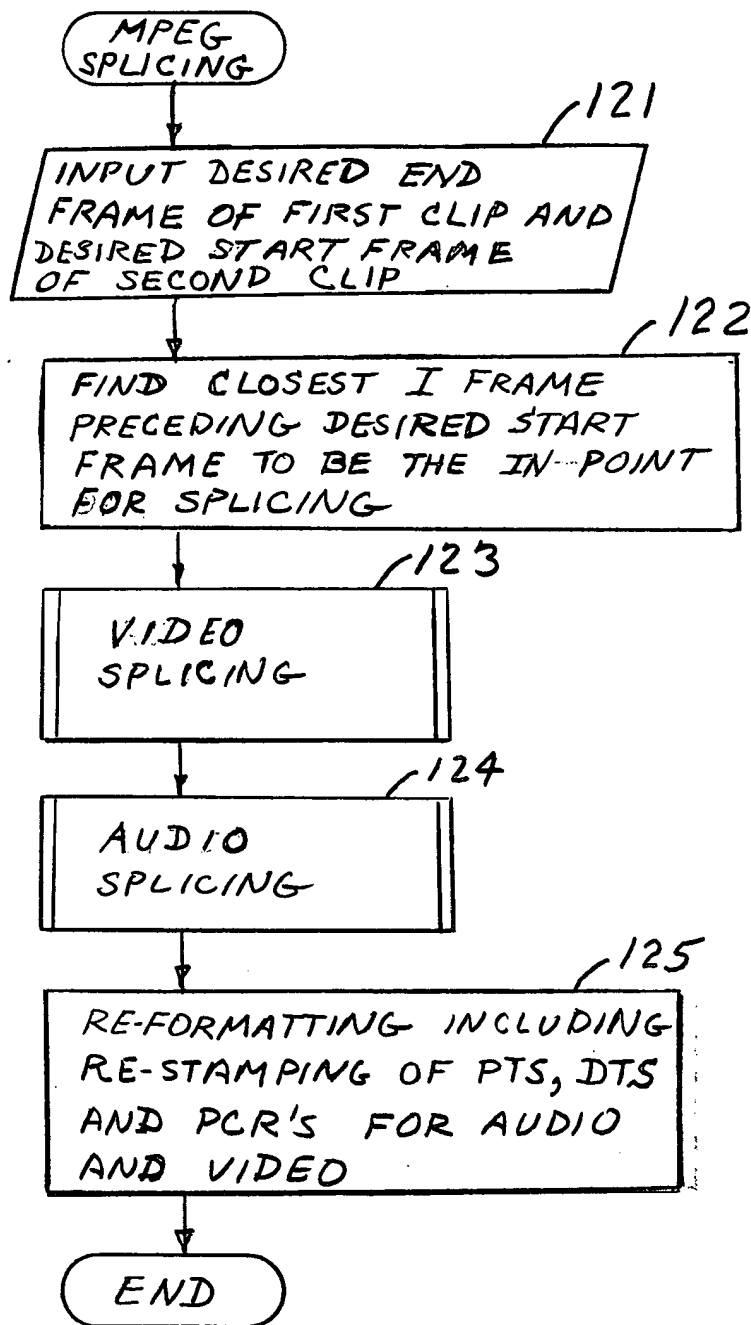


FIG. 19

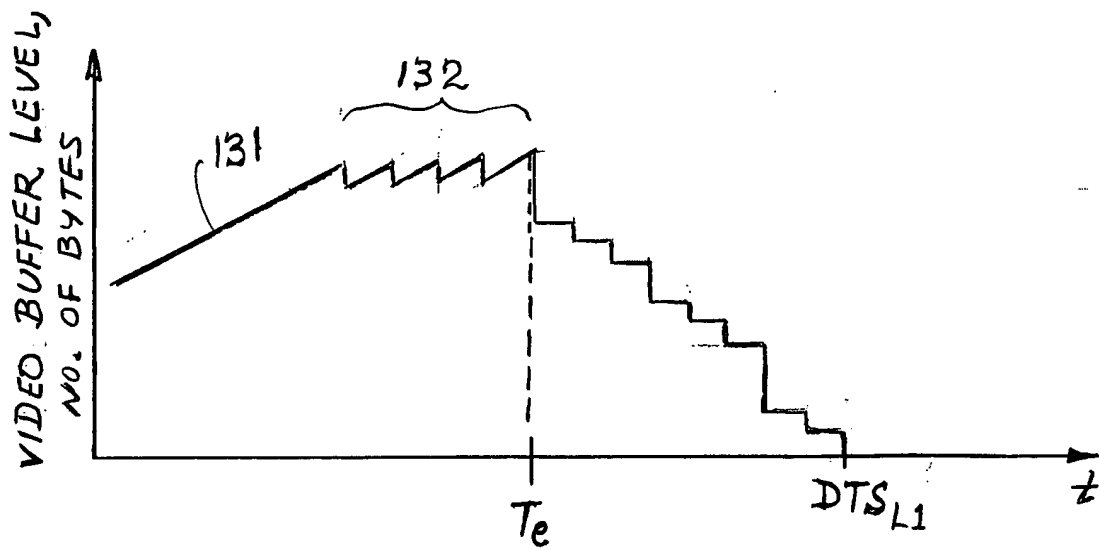


FIG. 20A

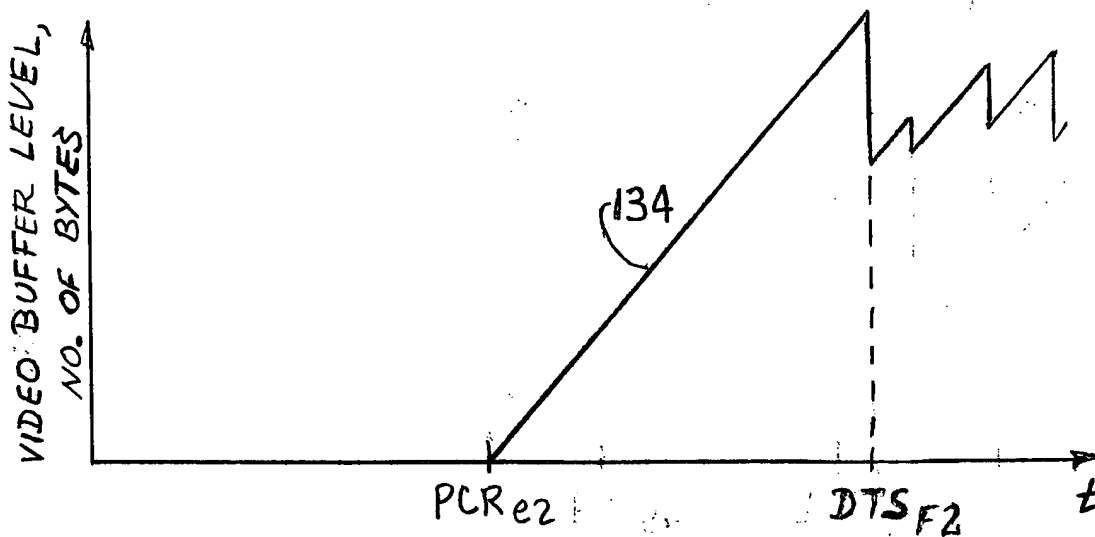


FIG. 20B

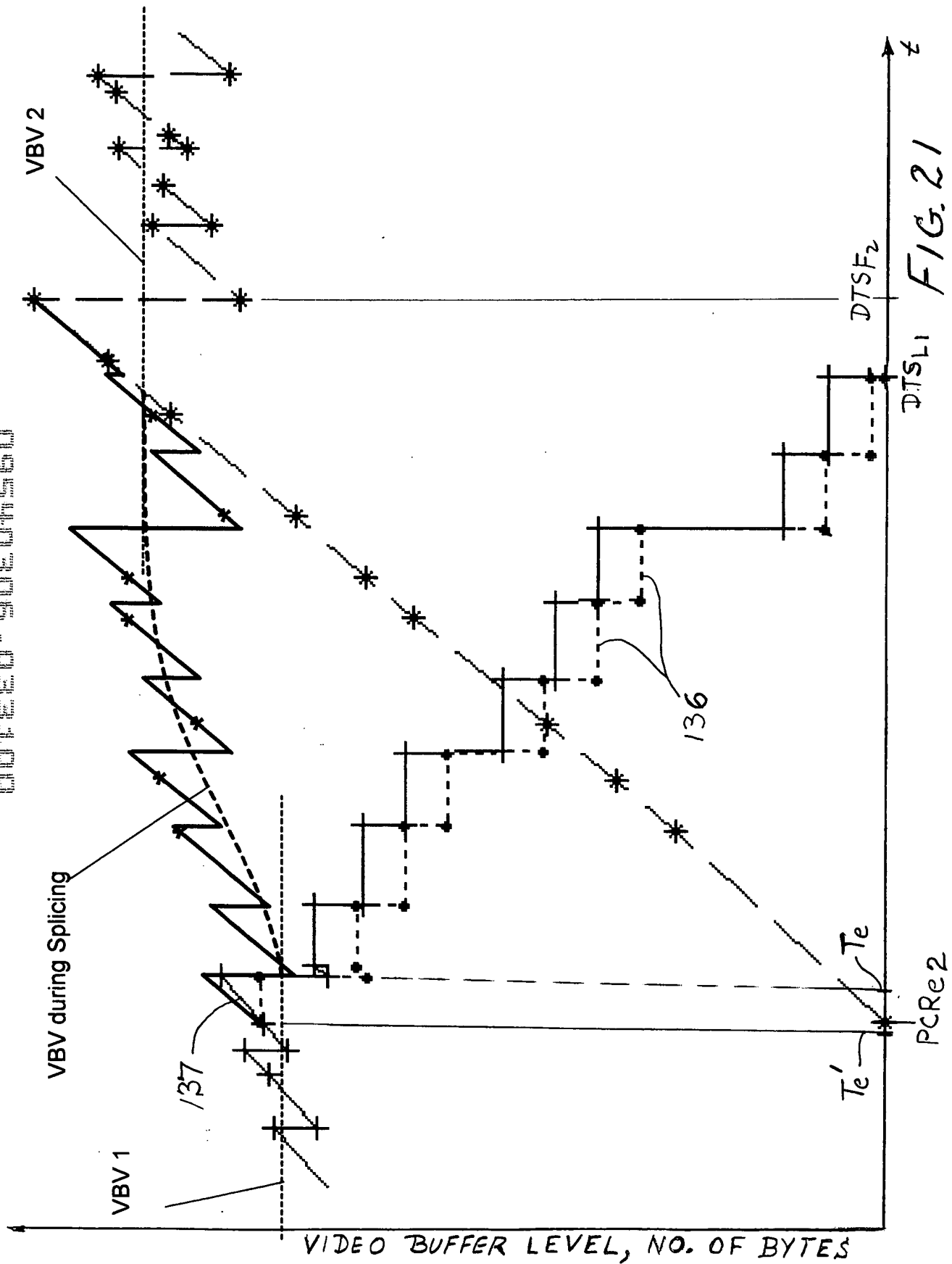


FIG. 21

00540306-033100

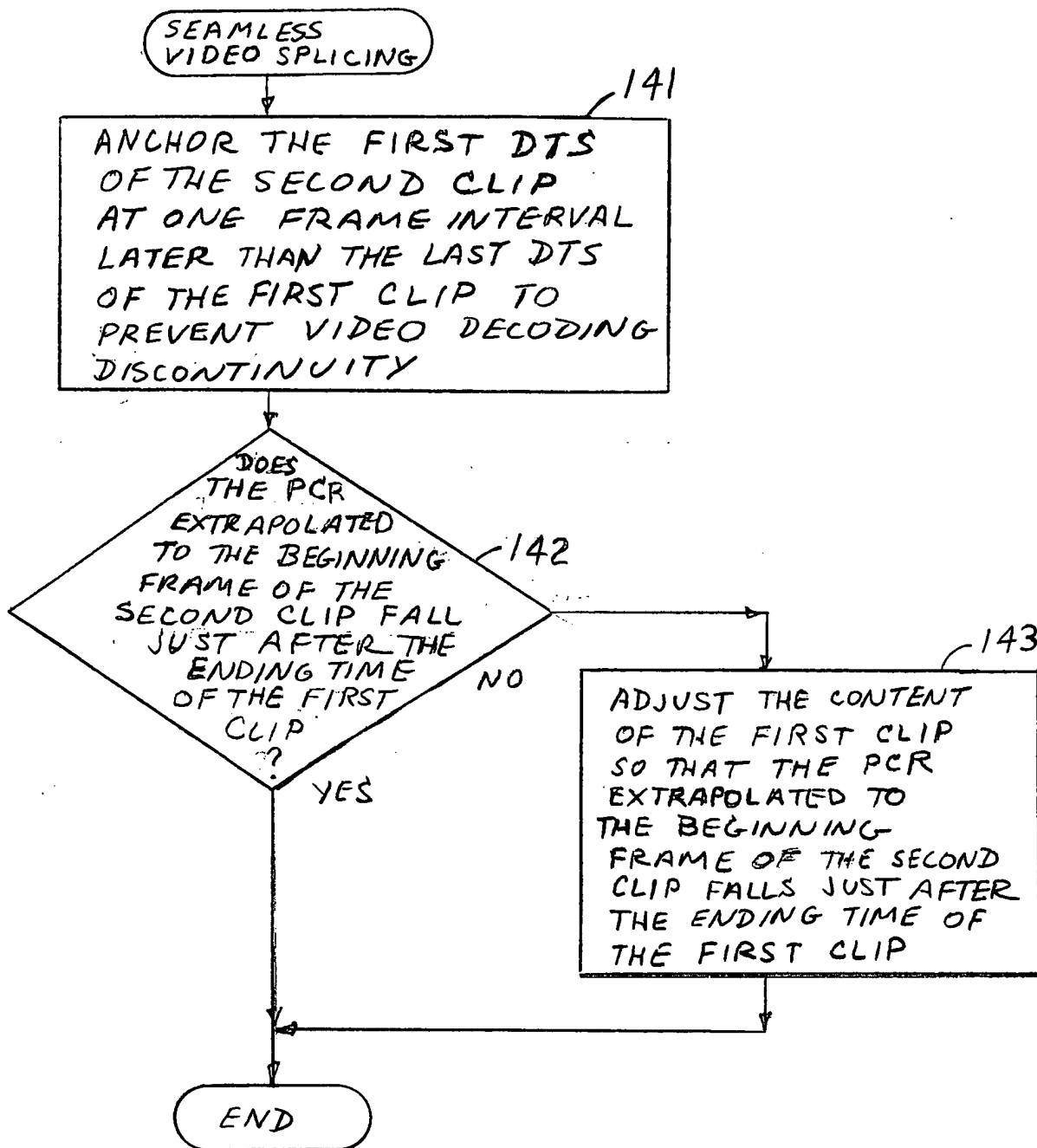


FIG. 22

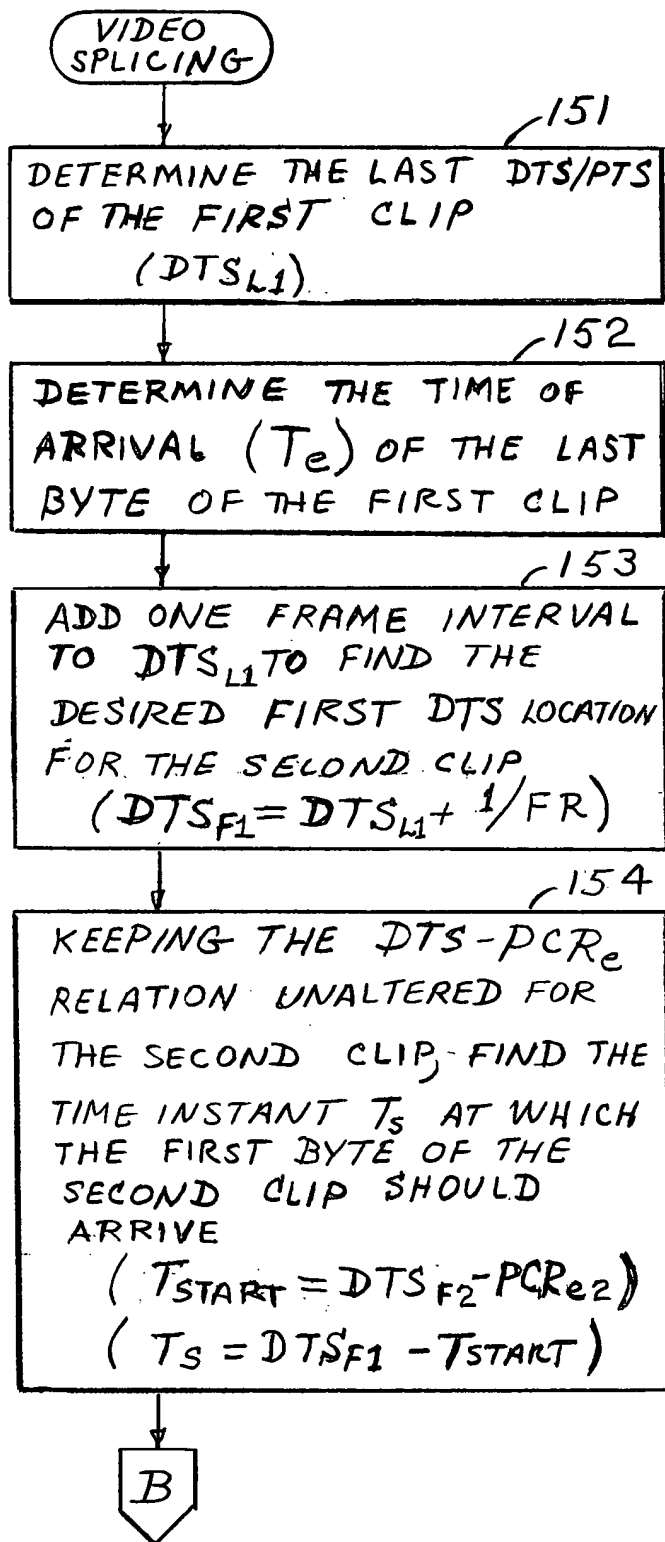


FIG. 23

09540306-033100

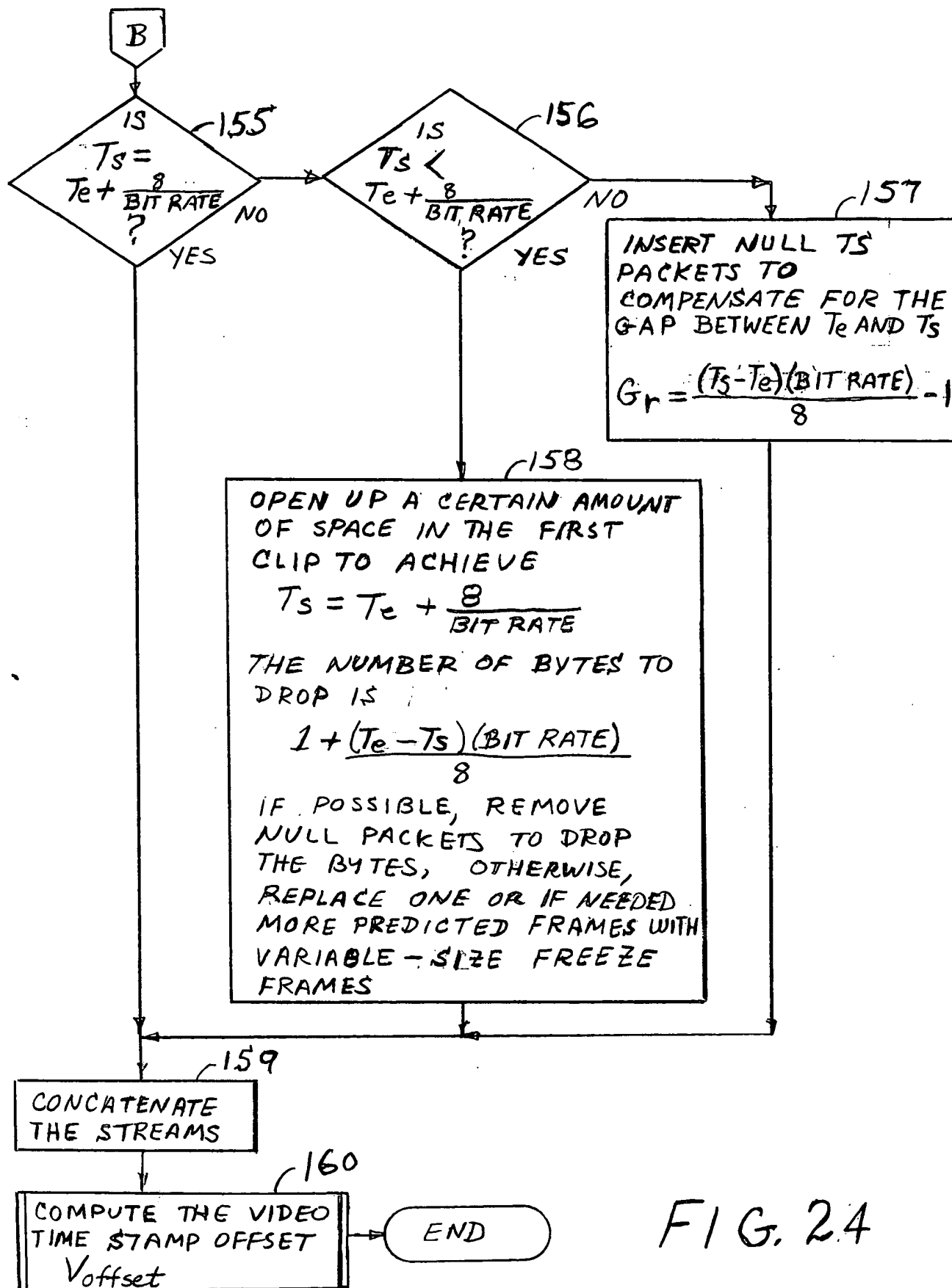


FIG. 24

09540306.03100

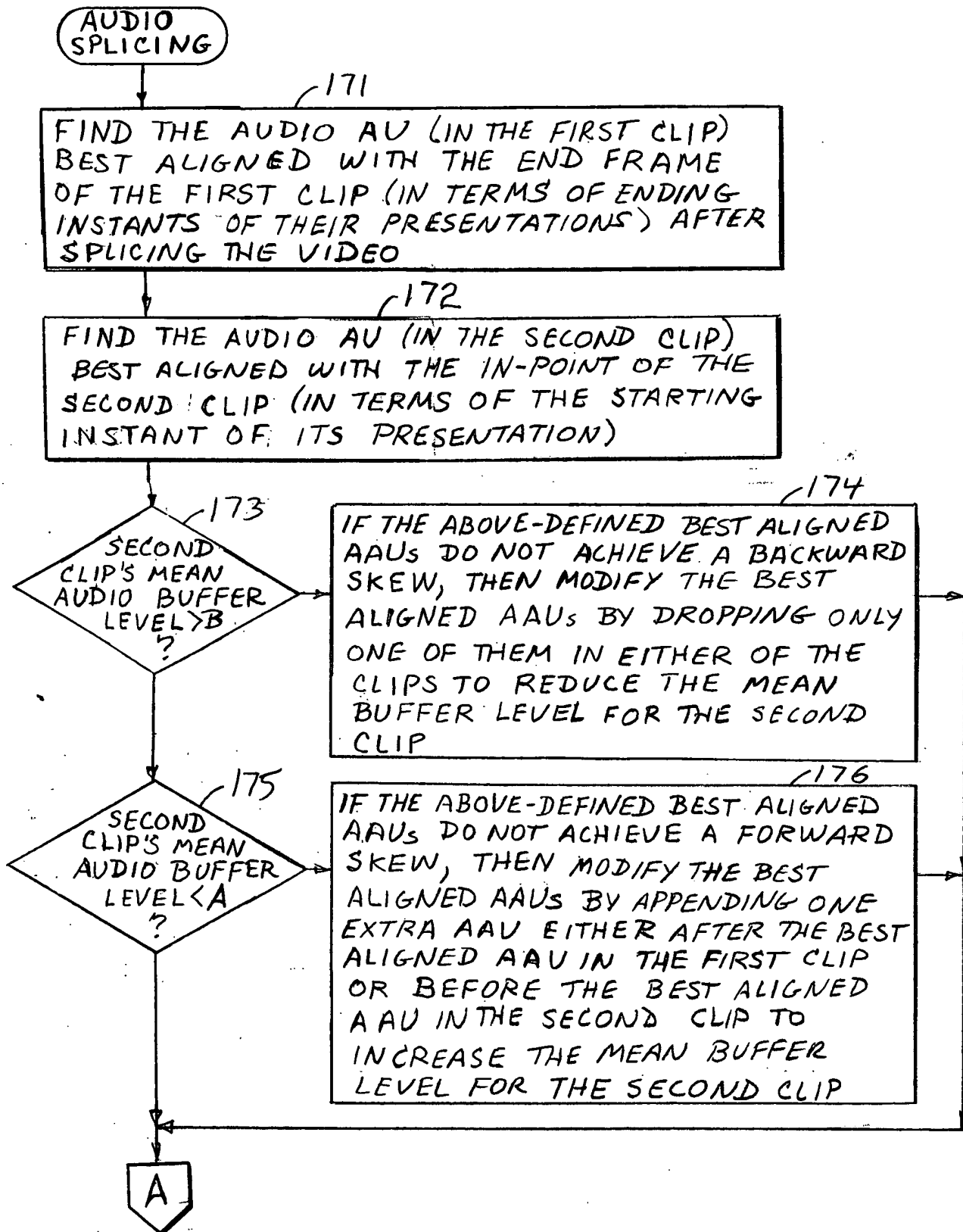


FIG. 25

A

177
REMOVE ALL AUs OF AUDIO IN THE FIRST CLIP AFTER THE BEST ALIGNED AAU IN THE FIRST CLIP, AND ADJUST THE LAST AUDIO PES PACKET HEADER IN THE FIRST CLIP TO REFLECT THE CHANGE IN ITS SIZE IN BYTES AFTER THE REMOVAL

178
FIND THE AUDIO PES PACKET IN THE SECOND CLIP WHICH INCLUDES THE BEST ALIGNED AAU IN THE SECOND CLIP, AND REMOVE ALL AAUs PRECEDING THE BEST ALIGNED ONE IN THIS PES PACKET

179
PRODUCE A PES PACKET HEADER TO ENCAPSULATE THE BEST ALIGNED AAU AND THE AAUs AFTER IT, AND WRITE THE PES PACKET SIZE INTO THE HEADER

180
CALCULATE THE REQUIRED AUDIO PTS OFFSET TO BE USED FOR RESTAMPING THE AUDIO OF THE SECOND CLIP

END

FIG 26

001111-03100

CASE	SECOND CLIP HAS A HIGH MEAN AUDIO BUFFER LEVEL	SECOND CLIP HAS A LOW MEAN AUDIO BUFFER LEVEL
FIG. 11A	USE FIG. 28	USE FIG. 11B OR 11C
FIG. 12A	USE FIG. 12B	USE FIG. 29
FIG. 13A	USE FIG. 13B	USE FIG. 30
FIG. 14A	USE FIG. 31	USE FIG. 14B
FIG. 15A	USE FIG. 15B	USE FIG. 32
FIG. 16A	USE FIG. 33	USE FIG. 16B
FIG. 17A	USE FIG. 17B OR 17C	USE FIG. 34
FIG. 18A	USE FIG. 35	USE FIG. 18B

FIG. 27

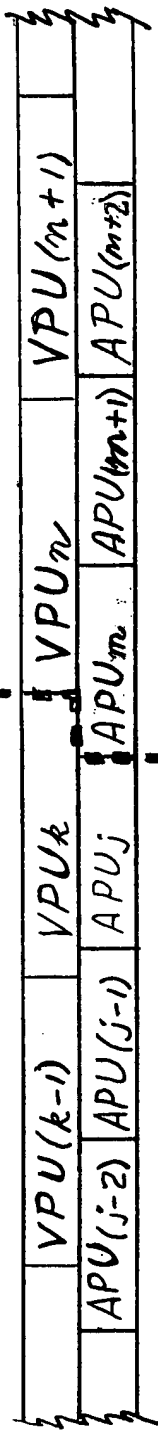


FIG. 28

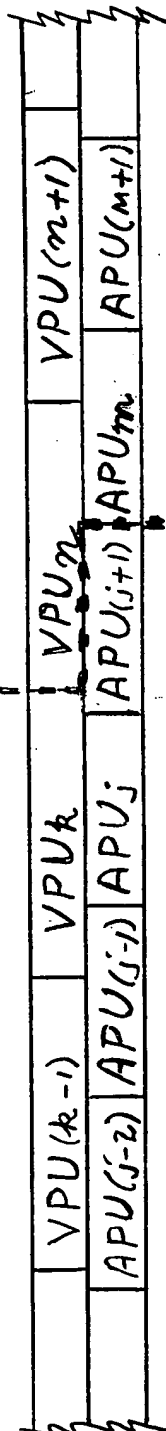


FIG. 29

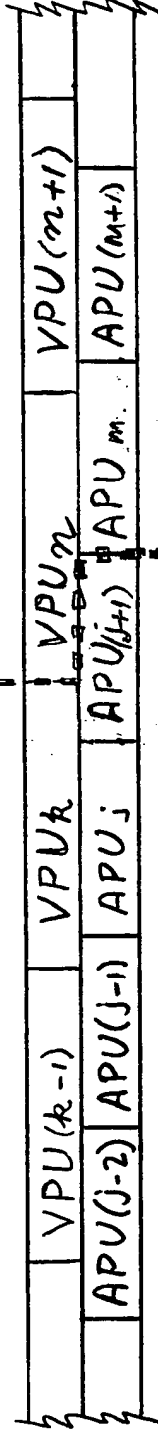


FIG. 30

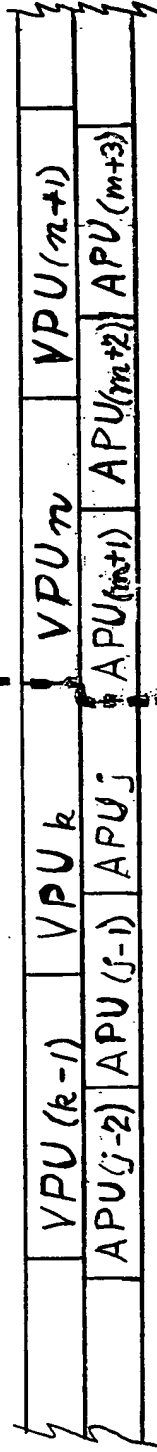


FIG. 31

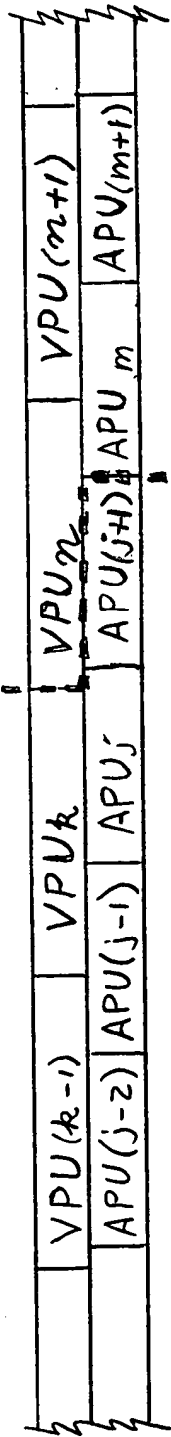


FIG. 32

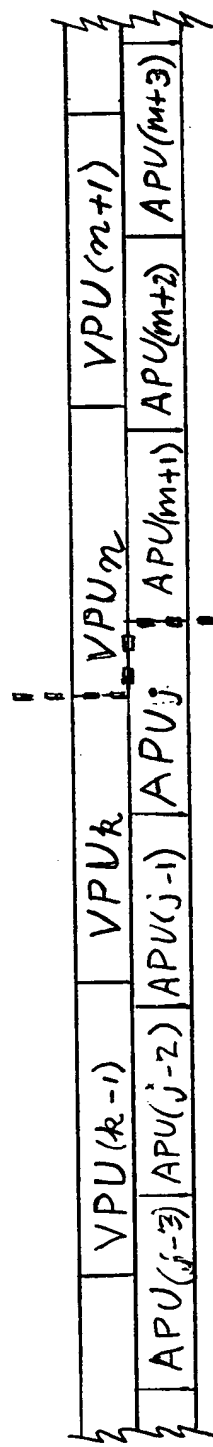


FIG. 33

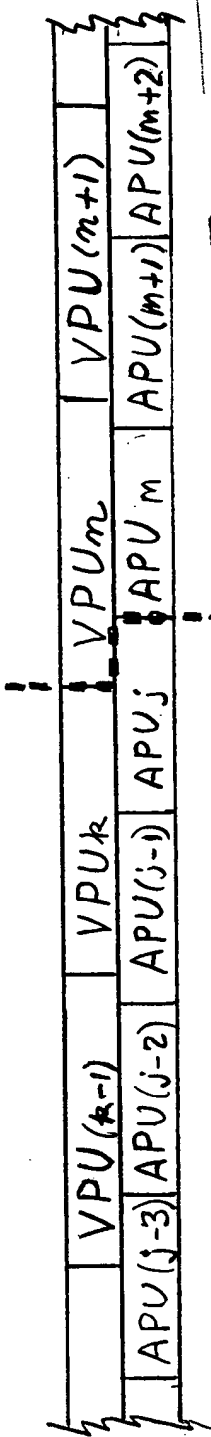


FIG. 34

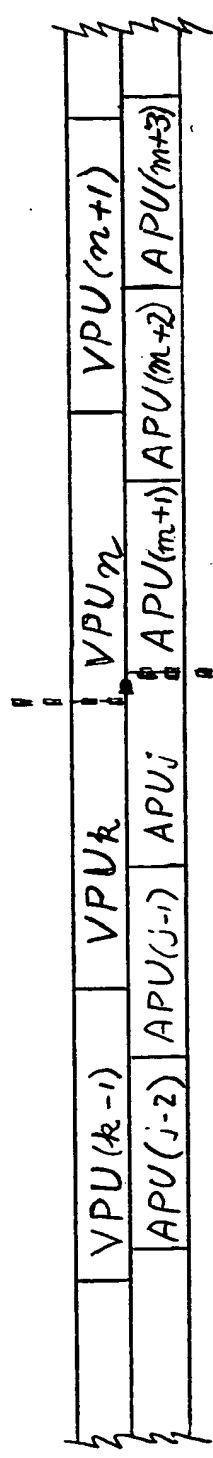


FIG. 35

0540306-033100

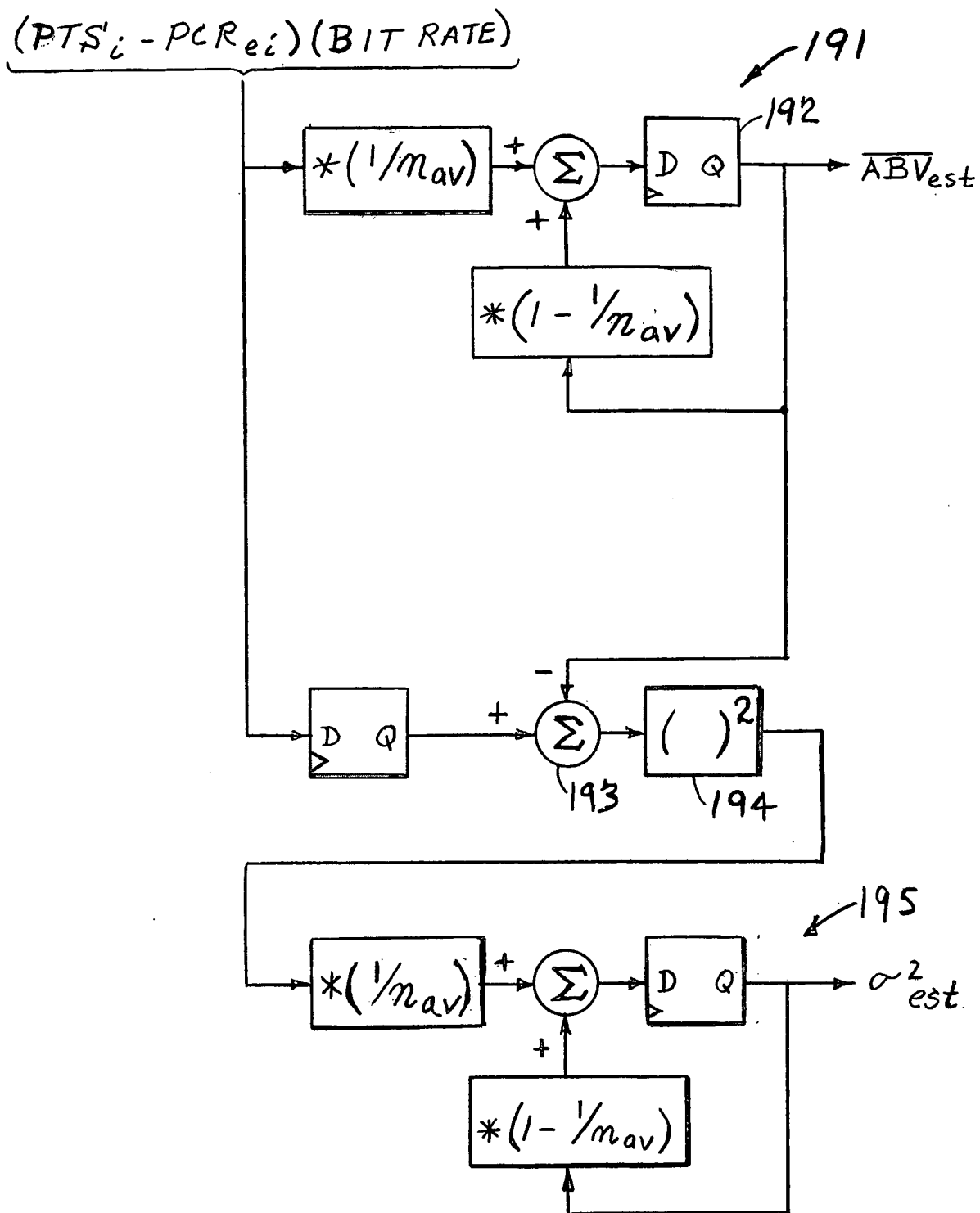
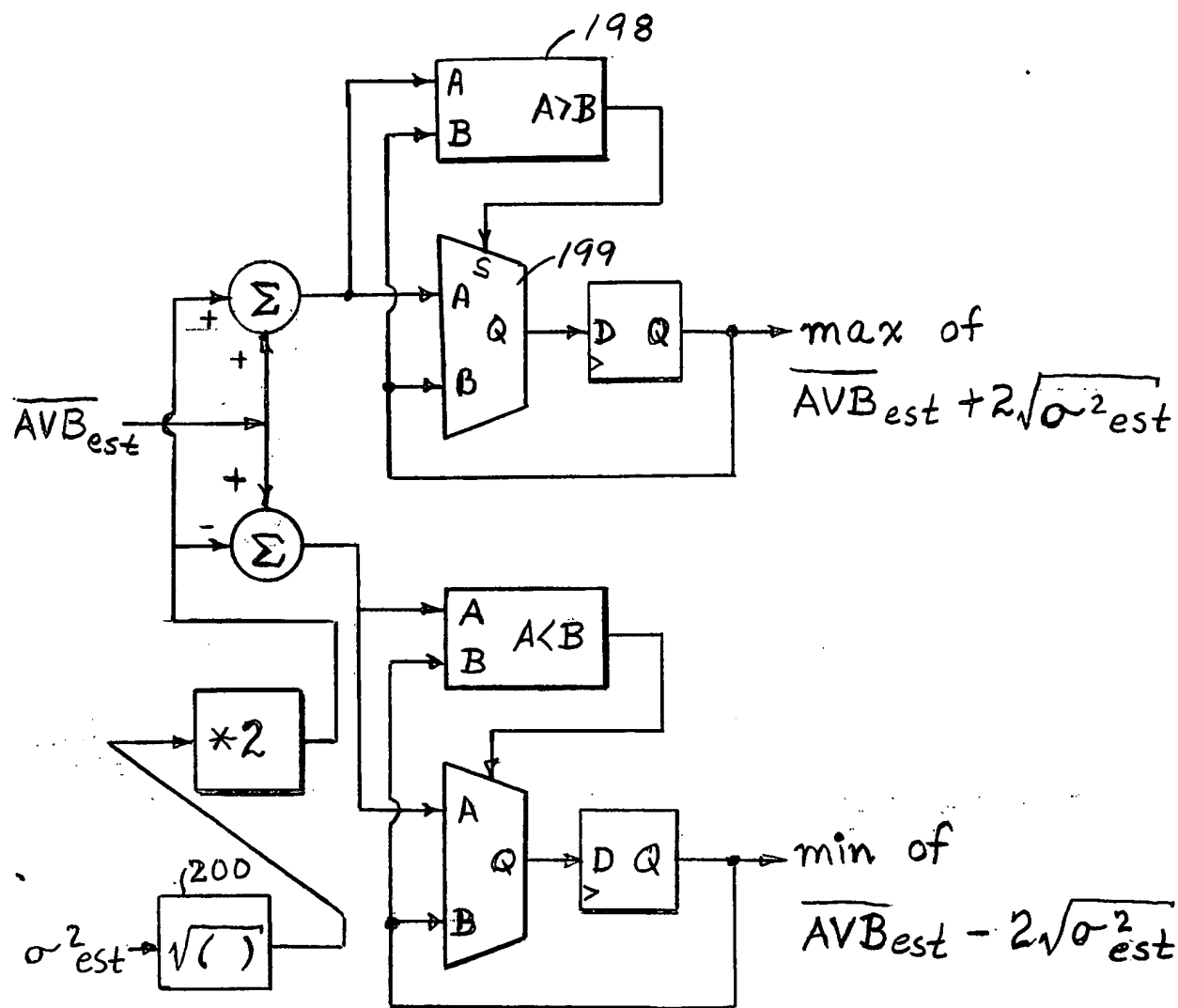


FIG. 36

SECRET



F1 G. 37

VOFFSET CALCULATION

211

FIND THE DTS OF THE LAST
FRAME (IN DECODE ORDER)
OF THE FIRST CLIP
(DTS VL1)

212

FIND THE ORIGINAL DTS OF
THE FIRST FRAME TO BE
DECODED IN THE SECOND
CLIP

(DTS_{VF2})

213

COMPUTE

$$V_{\text{OFFSET}} = DTS_{VL1} - DTS_{VF2} + (\text{ONE VIDEO FRAME DURATION})$$

END

FIG. 38

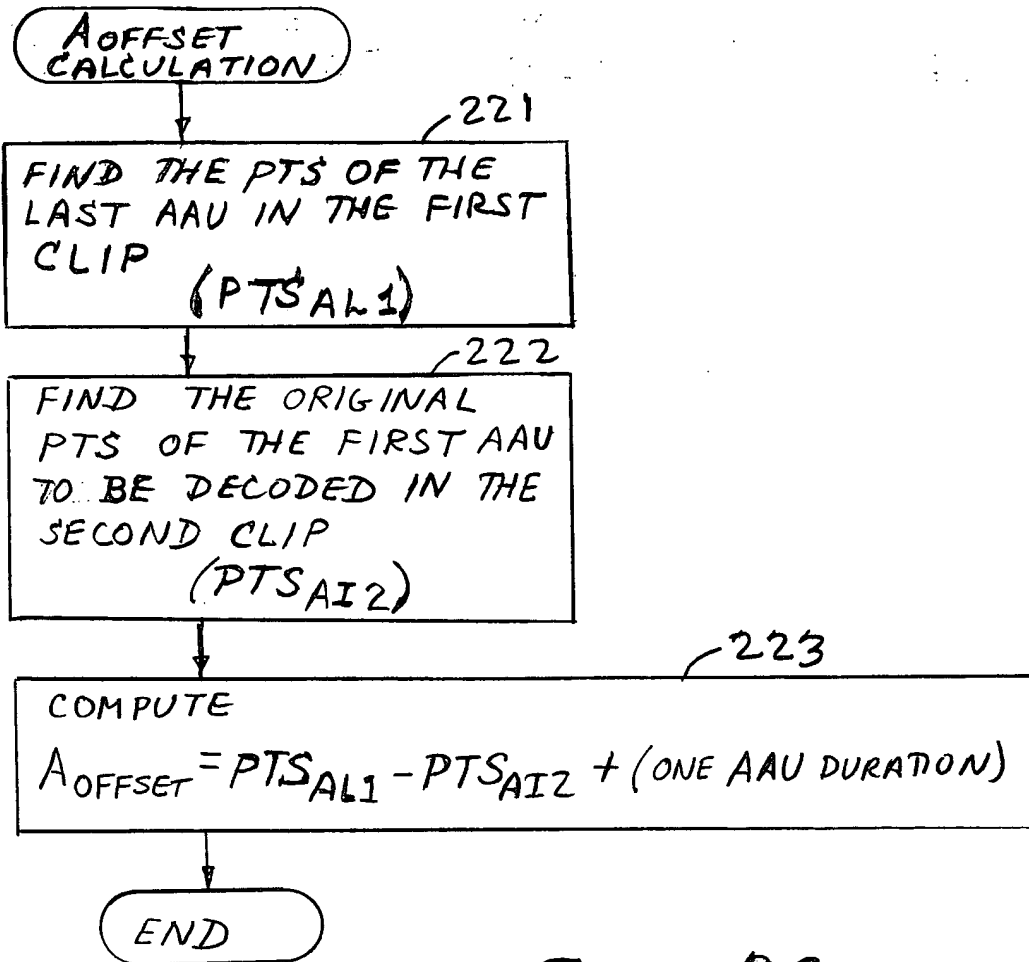


FIG. 39

SECRET

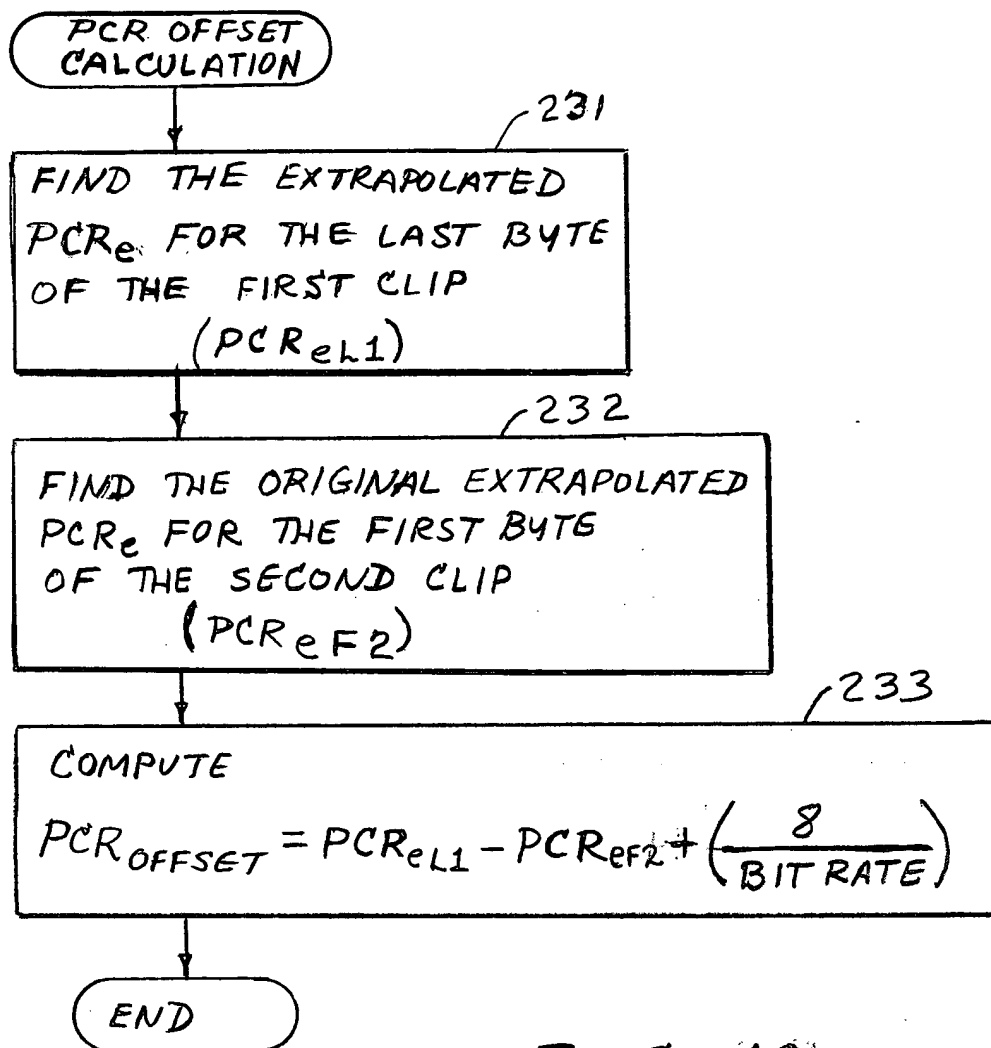


FIG. 40

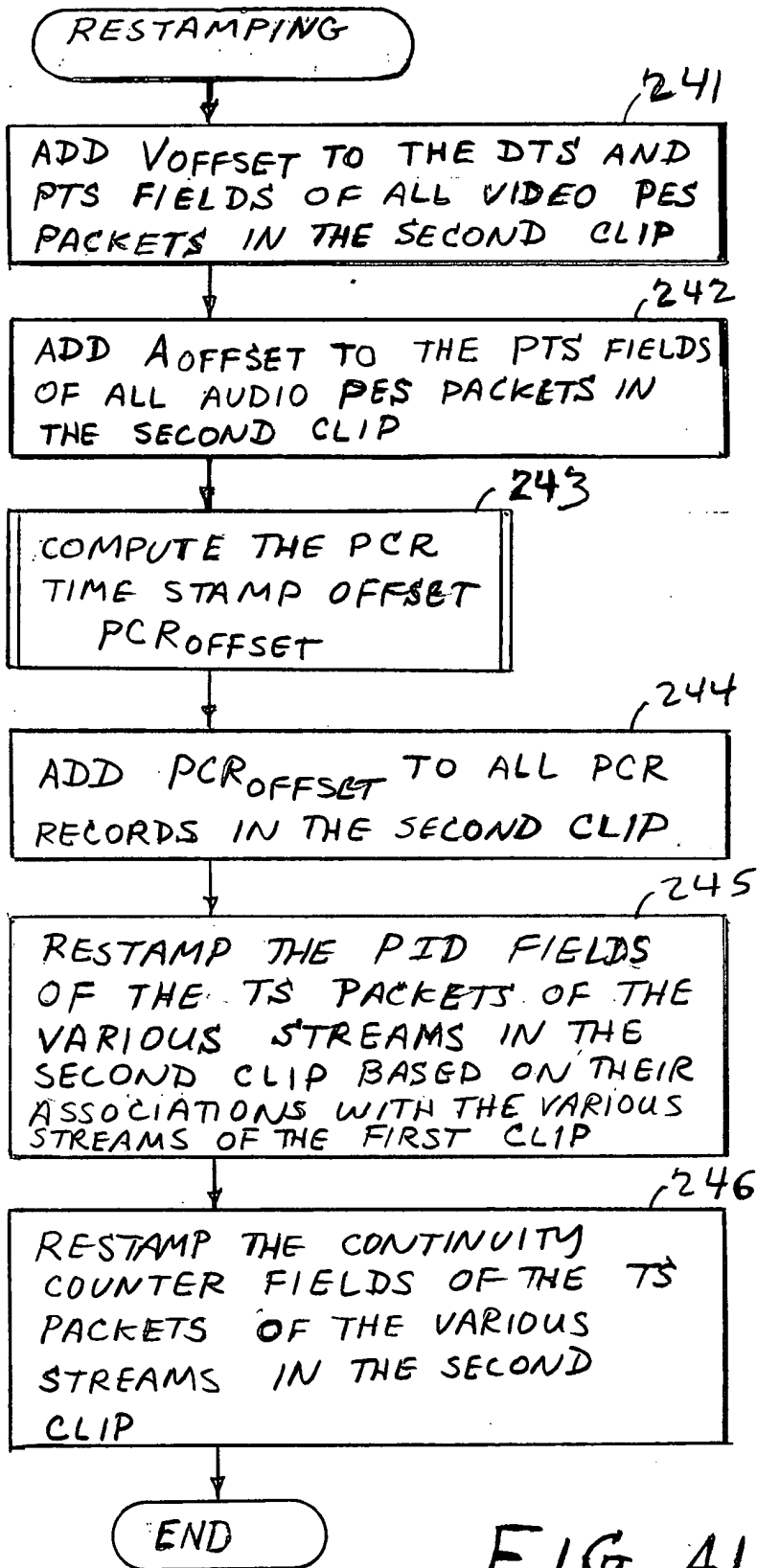


FIG. 41

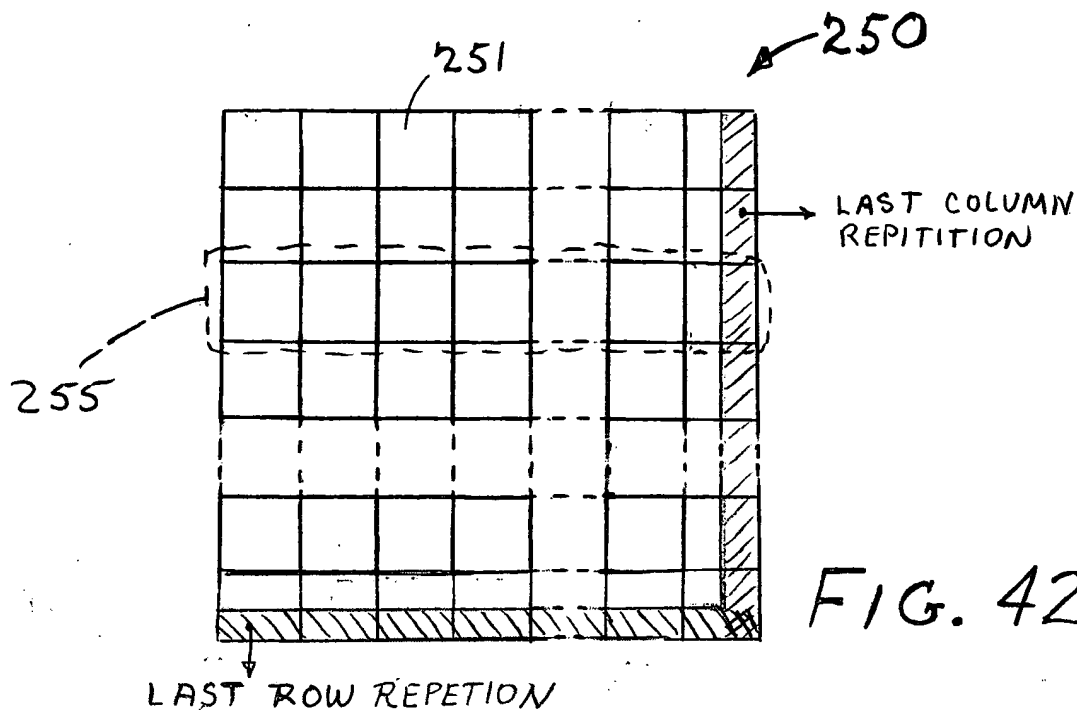


FIG. 42

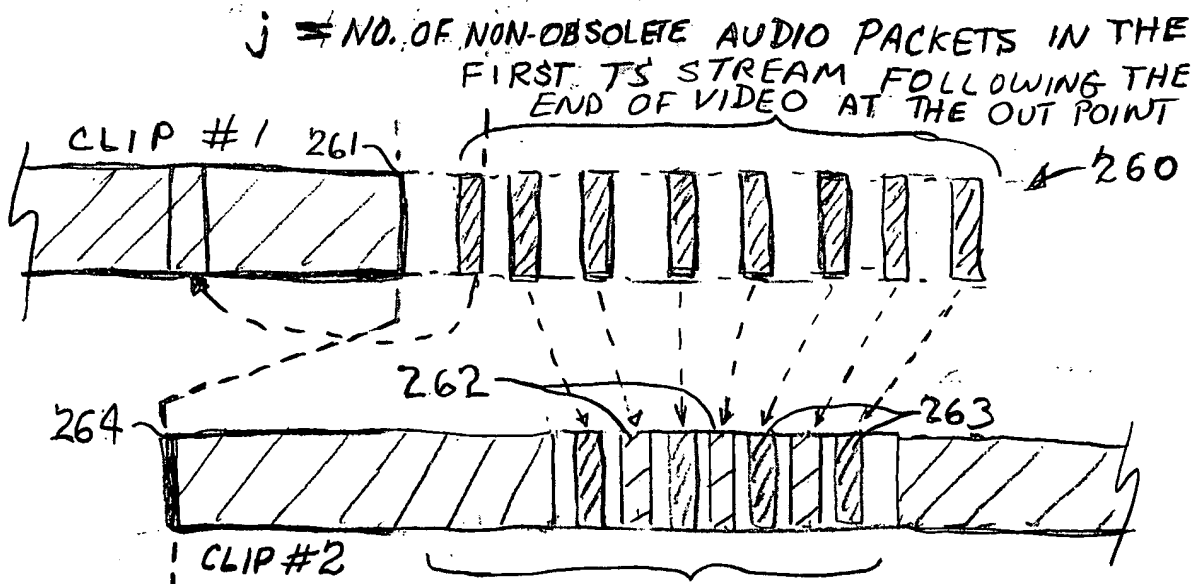


FIG. 43

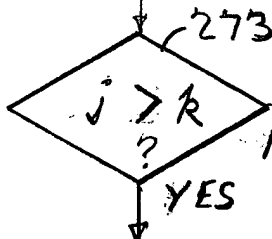
RE-FORMATting

DETERMINE:

j = NO. OF NON-OBSOLETE AUDIO PACKETS IN THE FIRST TS STREAM FOLLOWING THE END OF VIDEO AT THE OUT POINT.

k = TOTAL NUMBER OF NULL PACKETS AND OBSOLETE AUDIO PACKETS IN THE SECOND TS STREAM FOLLOWING THE BEGINNING OF VIDEO AT THE IN POINT.

REPLACE ANY OF THE k NULL PACKETS OR OBSOLETE AUDIO PACKETS IN THE SECOND TS STREAM WITH CORRESPONDING ONES OF THE j NON-OBSOLETE AUDIO PACKETS IN THE FIRST TS STREAM, BEGINNING WITH THE MOST ADVANCED IN TIME PACKETS



274

CHANGE ANY REMAINING OBSOLETE AUDIO PACKETS TO NULL TS PACKETS

275

FOR THE REMAINING $(j - k)$ NON-OBSOLETE AUDIO PACKETS FROM THE FIRST STREAM, CREATE $(j - k) * 188$ BYTES OF ADDITIONAL SPACE FOR THEM IN THE SPLICED TS STREAM PRIOR TO THE VIDEO FOR THE OUT POINT, (THIS ADDITIONAL SPACE MUST BE GENERATED SO AS TO MAINTAIN THE $T_s = T_e + 8 / (\text{BIT RATE})$ CONDITION OF FIG. 24 FOR SEAMLESS VIDEO SPLICING.)

END

FIG. 44

00540306-033100

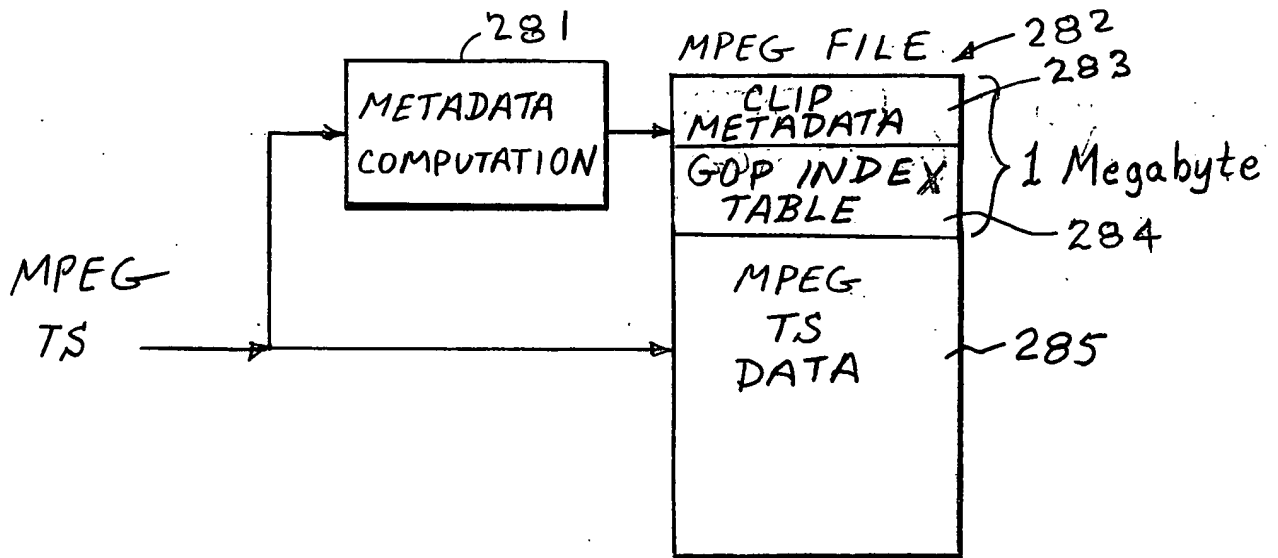


FIG. 45

284

	FRAME NO.	POINTER TO MPEG TS DATA	FLAGS	DTS, PCRe, AND OTHER GOP ATTRIBUTES
GOP 0				
GOP 1				
GOP 2				
GOP 3				
GOP 4				
GOP 5				
⋮				
GOP n				

FIG. 46

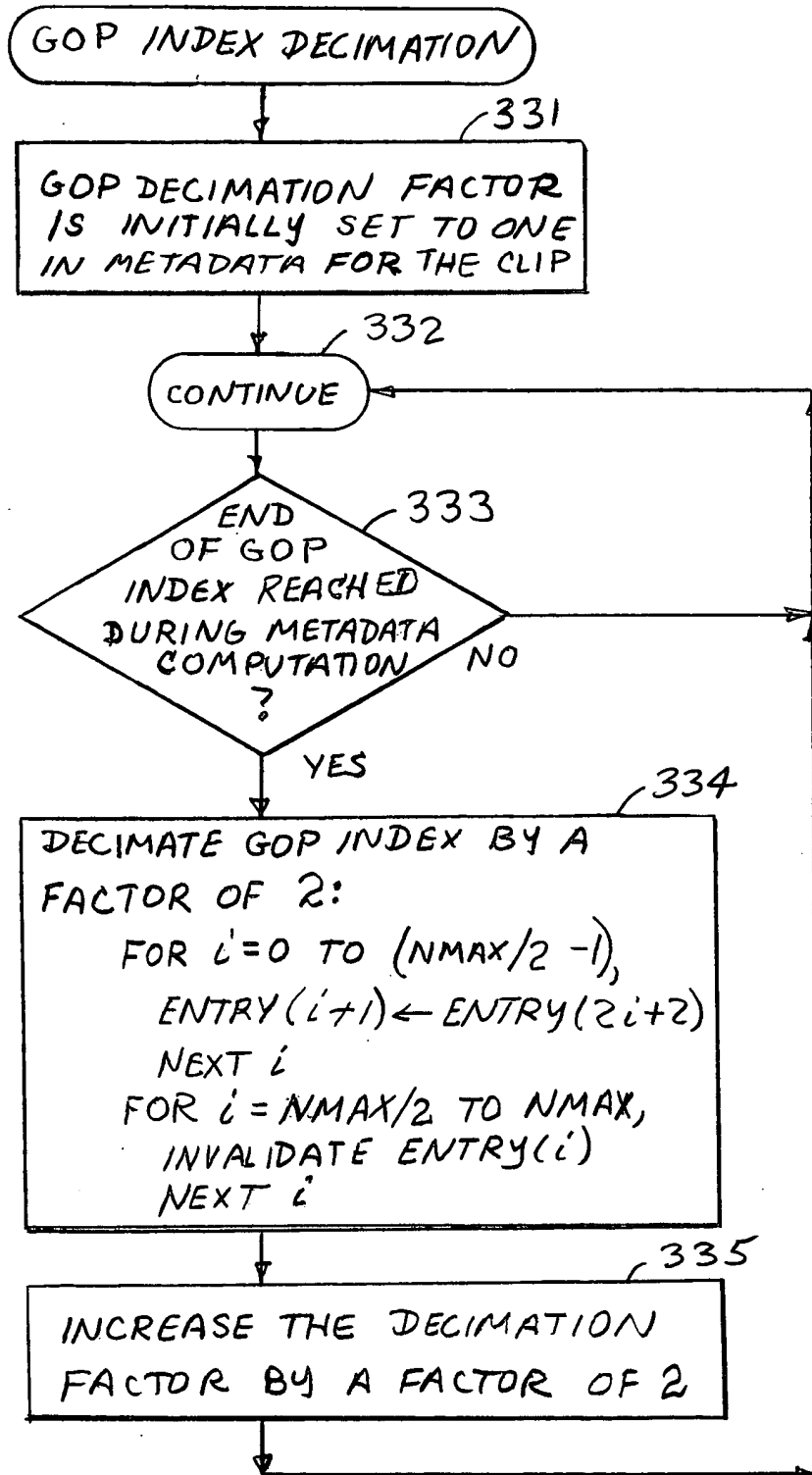


FIG. 47

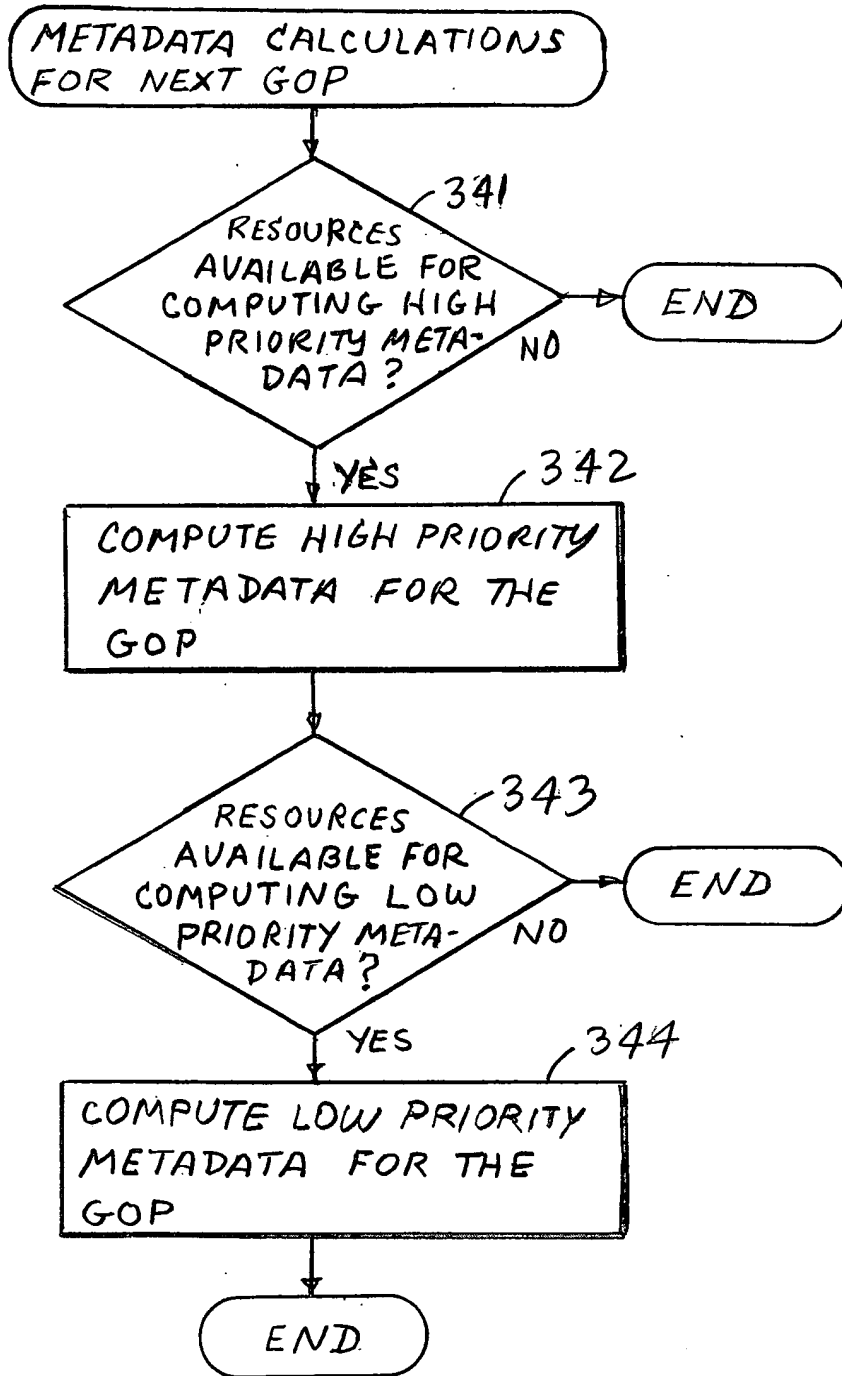
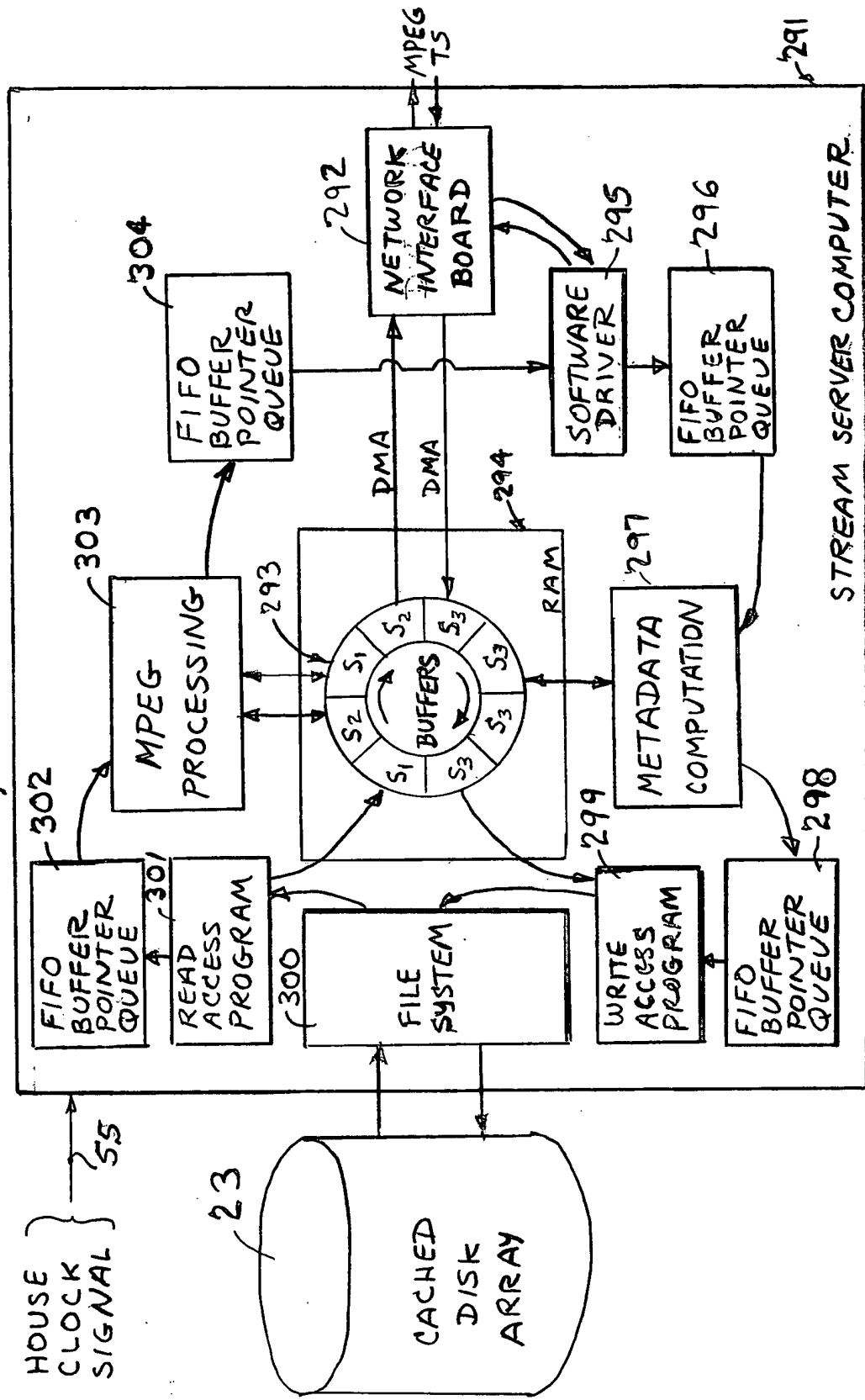


FIG. 48

HOUSE
CLOCK
SIGNAL } 55



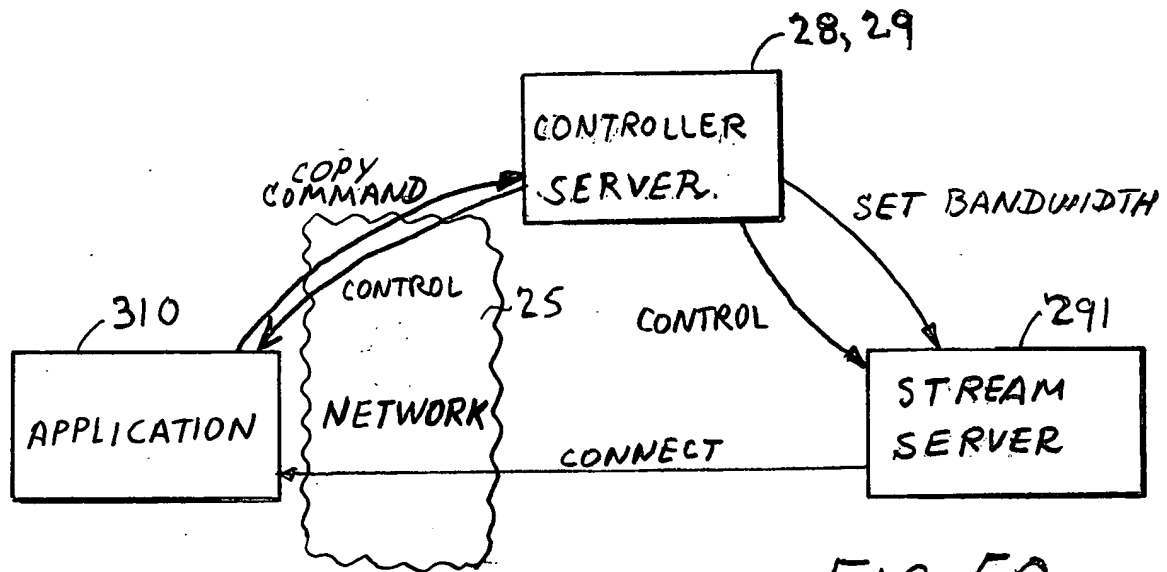


FIG. 50

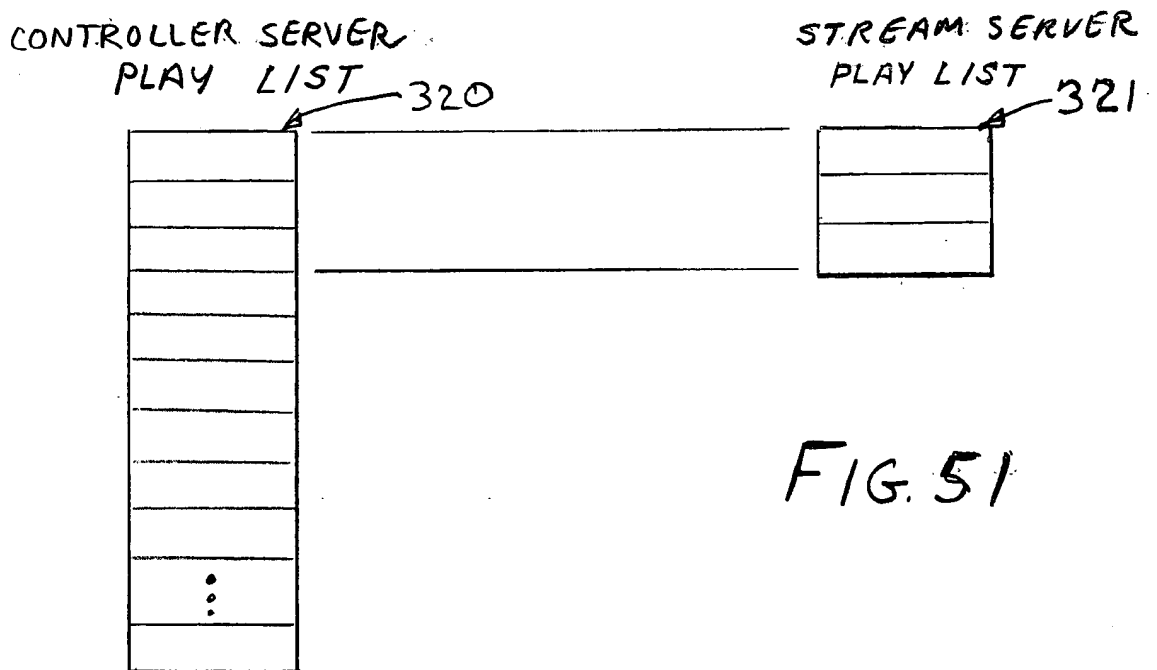


FIG. 51

09540306-033100

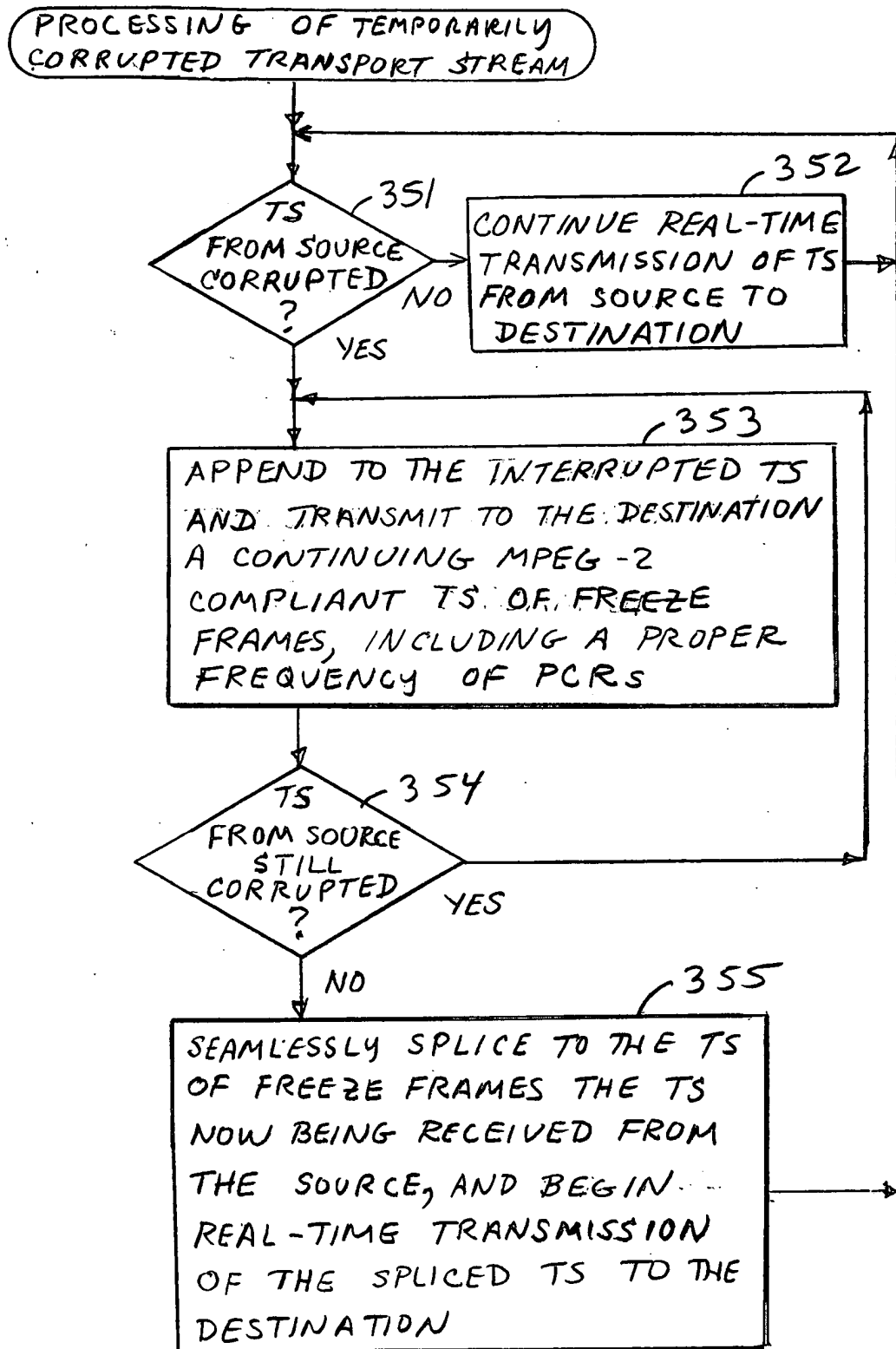


FIG. 52